

**B.Tech CSE Major Project List (2020-21)**

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| **Machine Learning** | | | |
| 1 | Detecting Malicious URLs via a Keyword-based Convolutional Gated-recurrent-unit Neural Network | 2020 | |
| 2 | Prediction of Drag Force on Vehicles in a Platoon Configuration Using Machine Learning | 2020 | |
| 3 | Incremental Cost-Sensitive Support Vector Machine With Linear-Exponential Loss | 2020 | |
| 4 | Detecting Spam Email With Machine Learning Optimized With Bio-Inspired Metaheuristic Algorithms | 2020 | |
| 5 | Machine Learning Security: Threats, Countermeasures, and Evaluations | 2020 | |
| **Deep Learning** | | | |
| 1 | Deep learning for classification and localization of COVID-19 markers in point-of-care lung ultrasound | 2020 | |
| 2 | Artificial Intelligence and COVID-19: Deep Learning Approaches for Diagnosis and Treatment | 2020 | |
| 3 | Routing Optimization For Cloud Services in SDN-based Internet of Things With TCAM Capacity Constraint | 2020 | |
| 4 | The Analysis of Plants Image Recognition Based on Deep Learning and Artificial Neural Network | 2020 | |
| 5 | Improving M-learners’ Performance Through Deep Learning Techniques by Leveraging Features Weights | 2020 | |
| 6 | Privacy-Preserving Deep Learning on Machine Learning as a Service - A Comprehensive Survey | 2020 | |
| **Python** | | | |
| 1 | Detecting Malicious URLs via a Keyword-based Convolutional Gated-recurrent-unit Neural Network | | 2019 |
| 2 | On Proactive, Transparent, and Verifiable Ethical Reasoning for Robots | | 2019 |
| 3 | A Lightweight and Efficient Secure Hybrid RSA (SHRSA) Messaging Scheme With Four-Layered Authentication Stack | | 2019 |
| 4 | Detection of fake online reviews using semi-supervised and supervised learning | | 2019 |
| 5 | Discovering the Type 2 Diabetes in Electronic Health Records using the Sparse Balanced Support Vector Machine | | 2019 |
| 6 | Serendipity—A Machine-Learning Application for Mining Serendipitous Drug Usage from Social Media | | 2019 |
| 7 | Crop Yield Prediction and Efficient use of Fertilizers | | 2019 |
| 8 | Point-of-interest Recommendation for Location Promotion in Location-based Social Networks | | 2018 |
| 9 | Noise Reduction in Web Data: A Learning Approach Based on Dynamic User Interests | | 2018 |
| 10 | Computer Vision and Machine Learning for Viticulture Technology | | 2018 |
| 11 | A novel method for implementing Artificial Intelligence, Cloud and Internet of Things in Robots | | 2018 |
| 12 | The ODNI-OUSD(I) Xpress Challenge: An Experimental Application of Artificial Intelligence Techniques to National Security Decision Support | | 2018 |
| 13 | Artificial Intelligence, Rationality, and the World Wide Web | | 2018 |
| 14 | Data Classification with Deep Learning using Tensorflow | | 2017 |
| **IOT** | | | |
| 1 | Optimal Resource Allocation in Energy Efficient Internet of Things Networks with Imperfect CSI | | 2020 |
| 2 | Routing Optimization For Cloud Services in SDN-based Internet of Things With TCAM Capacity Constraint | | 2020 |
| 3 | Load-balanced and QoS-aware Software-defined Internet of Things | | 2020 |
| 4 | NSAC: A Novel Clustering Protocol in Cognitive Radio Sensor Networks for Internet of Things | | 2019 |
| 5 | From Cloud Down to Things: An Overview of Machine Learning in Internet of Things | | 2019 |
| 6 | A Provably-Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment | | 2019 |
| 7 | Dynamic Load-Balancing Vertical Control for a Large-Scale Software-Defined Internet of Things | | 2019 |
| 8 | Multimedia Data Throughput Maximization in Internet-of-Things System Based on Optimization of Cache-Enabled UAV | | 2019 |
| 9 | Machine learning based network vulnerability analysis of industrial internet of things | | 2019 |
| 10 | Internet of Spatial Things: A New Reference Model with Insight Analysis | | 2019 |
|  | A Secure and Efficient Access and Handover Authentication Protocol for Internet of Things in Space Information Networks | | 2019 |
|  | Enhancement of a Lightweight Attribute-Based Encryption Scheme for the Internet of Things | | 2019 |
| **Android Applications** | | | |
| 1 | Android Based Self Attendance System Using OTP | | Abstract |
| 2 | Cab Booking Android Application | | Abstract |
| 3 | Android Food Order and Delivery App | | Abstract |
| 4 | Android General Knowledge Chatbot | | Abstract |
| 5 | Android Paper Free Document Sharing App Project | | Abstract |
| 6 | Android Graphical Image Password Project | | Abstract |
| 7 | Android Women Safety App | | Abstract |
| 8 | Android Help Assistance near Me | | Abstract |
| 9 | Employee Task Reminder | | Abstract |
| 10 | Expense Tracker | | Abstract |
| 11 | Mobile Application Interface to Register Citizen Complaint | | Abstract |
| 12 | Student and Faculty Chatting App | | Abstract |
| 13 | Android Weather Application | | Abstract |
| 14 | Smart Alumni Discovery | | Abstract |
| 15 | Mobile super market | | Abstract |
| 16 | Mobile patient management system | | Abstract |
| **Cloud Computing** | | | |
| 1 | Fog Computing as a Complementary Approach to Cloud Computing | | 2019 |
| 2 | SLA-Based Agile VM Management in Cloud & Datacenter | | 2019 |
| 3 | Efficient Task Scheduling for Applications on Clouds | | 2019 |
| 4 | A Simple and Secured Cryptography System of Cloud Computing | | 2019 |
| 5 | A Novel Predictive Resource Allocation Framework for Cloud Computing | | 2019 |
| 6 | Lightweight and Privacy-Preserving Delegatable Proofs of Storage with Data Dynamics in Cloud Storage | | 2018 |
| 7 | Optimization of Tasks in Cloud Computing Based on MAX-MIN, MIN-MIN and Priority | | 2018 |
| 8 | A Hierarchical Receding Horizon Algorithm for QoS-driven control of Multi-IaaS Applications | | 2018 |
| 9 | Access Control by Signature-Keys to Provide Privacy for Cloud and Big Data | | 2018 |
| 10 | Efficient and Privacy-preserving Online Fingerprint Authentication Scheme Over Outsourced Data | | 2018 |
| 11 | Karma: Cost-effective Geo-replicated Cloud Storage with Dynamic Enforcement of Causal Consistency | | 2018 |
| 12 | RIAL: Resource Intensity Aware Load Balancing in Clouds | | 2017 |
| 13 | Fine-Grained Two-Factor Access Control for Web-Based Cloud Computing Services | | 2016 |
| 14 | Circuit Ciphertext-Policy Attribute-Based Hybrid Encryption with Verifiable Delegation in Cloud Computing | | 2016 |
| 15 | Audit-Free Cloud Storage via Deniable Attribute-based Encryption | | 2015 |
| 16 | Provable Multicopy Dynamic Data Possession in Cloud Computing Systems | | 2015 |
| 17 | Decentralized Access Control with Anonymous Authentication of Data Stored in Clouds | | 2014 |
| 18 | PACK: Prediction-Based Cloud Bandwidth and Cost Reduction System | | 2014 |
| 19 | Building Confidential and Efficient Query Services in the Cloud with RASP Data Perturbation | | 2014 |
| 20 | Expressive, Efficient, and Revocable Data Access Control for Multi-Authority Cloud Storage | | 2014 |
| 21 | A Privacy Leakage Upper Bound Constraint-Based Approach for Cost-Effective Privacy Preserving of Intermediate Data Sets in Cloud | | 2013 |
| 22 | CAM: Cloud-Assisted Privacy Preserving Mobile Health Monitoring | | 2013 |
| 23 | QoS Ranking Prediction for Cloud Services | | 2013 |
| 24 | A Load Balancing Model Based on Cloud Partitioning for the Public Cloud | | 2013 |
| 25 | Scalable and Secure Sharing of Personal Health Records in Cloud Computing using Attribute-based Encryption | | 2013 |
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| **Data Mining** | | | |
| 1 | Big Data Analytics and Mining for Effective Visualization and Trends Forecasting of Crime Data | | 2019 |
| 2 | Medical Data Stream Distribution Pattern Association Rule Mining Algorithm Based on Density Estimation | | 2019 |
| 3 | Data-Pattern Enabled Self-Recovery Low-Power Storage System for Big Video Data | | 2019 |
| 4 | A Big Data Mining Approach of PSO-Based BP Neural Network for Financial Risk Management With IoT | | 2019 |
| 5 | Frequent Pattern Mining on Time and Location Aware Air Quality Data | | 2019 |
| 6 | Untangling Blockchain: A Data Processing View of Blockchain Systems | | 2018 |
| 7 | Correlated Matrix Factorization for Recommendation with Implicit Feedback | | 2018 |
| 8 | Collaborative Filtering Algorithm Based on Rating Difference and User Interest | | 2018 |
| 9 | A Framework for Real-Time Spam Detection in Twitter | | 2018 |
| 10 | NetSpam: a Network-based Spam Detection Framework for Reviews in Online Social Media | | 2018 |
| 11 | Heterogeneous Information Network Embedding for Recommendation | | 2018 |
| 12 | Harnessing Multi-source Data about Public Sentiments and Activities for Informed Design | | 2018 |
| 13 | FastGeo: Efficient Geometric Range Queries on Encrypted Spatial Data | | 2017 |
| 14 | An Internal Intrusion Detection and Protection System by Using Data Mining and Forensic Techniques | | 2017 |
| 15 | Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach | | 2017 |
| 16 | Analysis of users’ behaviour in structured e-commerce websites | | 2017 |
| 17 | Location Aware Keyword Query Suggestion Based on Document Proximity | | 2016 |
| 18 | Top-Down XML Keyword Query Processing | | 2016 |
| 19 | Nearest Keyword Set Search in Multi-Dimensional Datasets | | 2016 |
| 20 | DiploCloud: Efficient and Scalable Management of RDF Data in the Cloud | | 2016 |
| 21 | A Novel Recommendation Model Regularized with User Trust and Item Ratings | | 2016 |
| 22 | Resolving Multi-Party Privacy Conflicts in Social Media | | 2016 |
| **Networking & Network Security** | | | |
| 1 | A Survey of Networking Applications Applying the Software Defined Networking Concept Based on Machine Learning | | 2019 |
| 2 | Rational Agent-Based Decision Algorithm for Strategic Converged Network Migration Planning | | 2019 |
| 3 | Hierarchical Edge Cloud Enabling Network Slicing for 5G Optical Fronthaul | | 2019 |
| 4 | Information Network Risk Assessment Based on AHP and Neural Network | | 2018 |
| 5 | Mining network stream data for self learning networks | | 2018 |
| 6 | A Survey on Security Threats and Authentication Approaches in Wireless Sensor Networks | | 2018 |
| 7 | ECL-EKM: An Enhanced Certificateless Effective Key Management Protocol for Dynamic WSN | | 2017 |
| 8 | A Stable Approach for Routing Queries in Unstructured P2P Networks | | 2016 |
| 9 | Cost-Aware Secure Routing (CASER) Protocol Design for Wireless Sensor Networks | | 2015 |
| 10 | Maximizing P2P File Access Availability in Mobile Ad Hoc Networks though Replication for Efficient File Sharing | | 2015 |
| 11 | Secure and Reliable Routing Protocols for Heterogeneous Multihop Wireless Networks | | 2015 |
| 12 | Secure and Distributed Data Discovery and Dissemination in Wireless Sensor Networks | | 2015 |
| 13 | Improving the Network Lifetime of MANETs through Cooperative MAC Protocol Design | | 2015 |
| **Big Data** | | | |
| 1 | Big Data Quality Framework: Pre-Processing Data in Weather Monitoring Application | | 2019 |
| 2 | Stocks Analysis and Prediction Using Big Data Analytics | | 2019 |
| 3 | A Probability based Model for Big Data Security in Smart City | | 2019 |
| 4 | Adaptive Learning Model and Implementation Based on Big Data | | 2019 |
| 5 | Accurate marking method of network attacking information based on big data analysis | | 2019 |
| 6 | Cloud Centric Authentication for Wearable Healthcare Monitoring System | | 2018 |
| 7 | Logic Bug Detection and Localization Using Symbolic Quick Error Detection | | 2018 |
| 8 | Map Reduce Programming Model for Parallel K-Mediod Algorithm on Hadoop Cluster | | 2018 |
| 9 | Research on Reliability Evaluation of Big Data System | | 2018 |
| 10 | Smart Governance through Bigdata: Digital Transformation of Public Agencies | | 2018 |
| 11 | Online Data Deduplication for In-Memory Big-Data Analytic Systems | | 2017 |
| 12 | Big Data Set Privacy Preserving through Sensitive Attribute-based Grouping | | 2017 |
| 13 | Designing Self-Tuning Split-Map-Merge Applications for High Cost-Efficiency in the Cloud | | 2017 |
| 14 | H2Hadoop: Improving Hadoop Performance using the Metadata of Related Jobs | | 2016 |
| 15 | A Parallel Patient Treatment Time Prediction Algorithm and Its Applications in Hospital Queuing-Recommendation in a Big Data Environment | | 2016 |
| 16 | A Time Efficient Approach for Detecting Errors in Big Sensor Data on Cloud | | 2015 |
| 17 | Data Mining with Big Data | | 2014 |
| 18 | A Scalable Two-Phase Top-Down Specialization Approach for Data Anonymization Using MapReduce on Cloud | | 2014 |
| **Mobile Computing** | | | |
| 1 | Advanced Query Processing and its Optimization for Mobile Computing Environment | | 2018 |
| 2 | Mobile Privacy Protection Enhanced with Multi-access Edge Computing | | 2018 |
| 3 | Energy Consumption in Hand-Held Mobile Communication Devices: A Comparative Study | | 2018 |
| 4 | Hotspot-based Resource Sharing System for Mobile Ad hoc Networks | | 2018 |
| 5 | Effect of Queueing Delay and Service Discrimination on Offloading Performance in Two-Class Mobile Edge Computing Systems | | 2018 |
| 6 | Wormhole Attack Detection Algorithms in Wireless Network Coding Systems | | 2015 |
| 7 | User-Defined Privacy Grid System for Continuous Location-Based Services | | 2015 |
| 8 | Privacy-Preserving and Truthful Detection of Packet Dropping Attacks in Wireless Ad Hoc Networks | | 2015 |
| **Secure Computing** | | | |
| 1 | Privacy Protection for Wireless Medical Sensor Data | | 2016 |
| 2 | Contributory Broadcast Encryption with Efficient Encryption and Short Ciphertexts | | 2016 |
| 3 | Data Lineage in Malicious Environments | | 2016 |
| 4 | A Computational Dynamic Trust Model for User Authorization | | 2015 |
| 5 | Secure Data Aggregation Technique for Wireless Sensor Networks in the Presence of Collusion Attacks | | 2015 |
| 6 | Secure Spatial Top-k Query Processing via Untrusted Location-Based Service Providers | | 2015 |
| **Web Application** | | | |
| 1 | Travel and Tourism Management System | | Non-IEEE |
| 2 | Car Pooling | | Non-IEEE |
| 3 | College Management System | | Non-IEEE |
| 4 | Online Grievance Management | | Non-IEEE |
| 5 | Insurance Policy for Vehicle and Bodily Injured Liability | | Non-IEEE |
| 6 | Career Calling | | Non-IEEE |
| 7 | Online Ticket Reservations | | Non-IEEE |
| 8 | Mobile patient management system | | Non-IEEE |
| 9 | Automatic Time Table Generator | | Non-IEEE |
| 10 | Online Pharmacy | | Non-IEEE |
| 11 | E- Health Care | | Non-IEEE |
| 12 | Resume Building | | Non-IEEE |
| 13 | Crime Record Management System | | Non-IEEE |
| 14 | Multi Banking Transaction System | | Non-IEEE |
| 15 | Online Student Portal | | Non-IEEE |

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