



# MEGHANA GK

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Bengaluru

## Skills

- React.js
- Node.js
- HTML
- CSS
- JavaScript
- RESTful APIs
- JWT Authentication
- C++
- MongoDB
- MySQL
- Natural Language Processing (NLP)
- Supervised Learning
- Unsupervised Learning
- AWS
- Docker
- Kubernetes
- Kafka
- operating Systems
- DBMS
- Computer Networks
- OS:Linux

## Language

- English

## Education

### RV College of Engineering

Master's of Computer Applications, CGPA: 8.58

### JSS Shri Manjunatheshwara UG and PG studies

Bachelor's in computer applications, CGPA: 8.89

2024

### Shantiniketan's PU college

PUC, CGPA: 8.85

2019

## Projects

1. Peer Link - College Collaboration Platform – MERN Stack: MongoDB, Express.js, React.js, Node.js

Built a full-stack social platform tailored for college students to connect, collaborate on projects, and share academic resources in a secure environment.

Integrated secure login using Google and college email authentication, JWT-based session handling via JSON Web Token, and secure cookies to prevent token theft. Designed scalable MongoDB schemas to efficiently manage user data and post relationships, enabling seamless retrieval and interaction across users and content.

Implemented a LinkedIn-style posting feature for students to share updates, materials, doubts, and collaboration opportunities within their academic network.

Focused on fostering a self-sustaining, in-college ecosystem for academic networking, team formation, and knowledge sharing among verified student users.

2. Behavior-Based Insider Threat Detection System – Python, Scikit-learn, XGBoost, Random Forest, Pandas, NumPy, Scikit Pipeline, Pickle, Voting Classifier

Developed a machine learning-driven insider threat detection system that reduced false positives by 37% and SOC alert fatigue by 80%.

Engineered behavioral features from 1 lakh historical user activity logs to identify anomalies and deviations from normal access patterns.

Trained and fine-tuned XGBoost and Random Forest classifiers on labeled behavioral datasets, achieving 82% accuracy on unseen validation data.

Built a production-ready end-to-end ML pipeline using Scikit-learn Pipeline, serialized with Pickle, and integrated into a Voting Ensemble Classifier, resulting in a 27% reduction in model bias.

Flagged high-risk behaviors such as off-hours access to sensitive files, reducing manual escalations by 60% and minimizing false positives.

Enhanced SOC operation efficiency by enabling behavior-adaptive threat prioritization, reducing analyst workload by 70% through intelligent alert filtering.

3. BMTC Bus Route Finder – Bangalore Only – React, Node.js, MySQL, AWS: S3, CloudFront, Elastic Beanstalk, RDS

Developed a full-stack web application that processed over 10,000 route queries daily, helping commuters in Bangalore find BMTC bus numbers between two locations using structured MySQL route data.

Designed an intuitive user interface that reduced the average search time by 50%, allowing users to input source and destination and receive accurate route options via optimized SQL queries.

- Hindi
- Kannada

Implemented a scalable backend using Node.js and Express to handle routing logic and database interactions, ensuring low latency and frequent route queries.

Deployed the solution on AWS — frontend hosted via S3 and CloudFront, backend via Elastic Beanstalk, and MySQL RDS as the primary database .

Utilized cloud infrastructure to ensure high availability, scalability, and performance for daily commuter usage with live tracking integration.

Assisted users unfamiliar with the BMTC system by simplifying the process of identifying direct and connecting bus routes.