

Mohan P.

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Education

SJB Institute of Technology, Bengaluru, India
Bachelor of Engineering in Information Science and Engineering

Graduating 2026
CGPA: 8.15 / 10.0

Technical Skills

Languages & Frameworks: Python, Java, SQL, JavaScript, HTML, Flask, Express.js, Node.js
Developer Tools & Libraries: Scikit-learn, Sequelize ORM, Git, GitHub, AdminLTE UI, Bootstrap, SQLite
Cloud & Core Engineering: AWS (EC2, S3, RDS, IAM, VPC), Data Structures & Algorithms, OOP, SDLC
Machine Learning & AI: NLP, Feature Engineering, Data Preprocessing, Model Training & Evaluation

Professional Experience

Tally Solutions

Oct 2025 – Jan 2026

Software Engineering Intern (Backend Services)

Bengaluru, India

- Engineered and optimized core backend business logic for large-scale enterprise application workflows, streamlining complex data processing pipelines.
- Designed and deployed a highly scalable, asynchronous push notification channel architecture to optimize message routing and enhance cross-service communication efficiency.
- Conducted extensive programmatic unit testing, integration testing, and deep-tier system debugging to eliminate edge-case errors and resolve critical production vulnerabilities.
- Actively contributed within high-velocity Agile sprint teams, participating in technical code reviews and ensuring full compliance with SDLC governance guidelines.

Young Mind Creations Technologies Pvt. Ltd.

Jan 2026 – May 2026

Software Development Intern (Full-Stack / Core Workflow Systems)

Bengaluru, India

- Developed and integrated the core backend logic for the **Timber Assessment System**, handling secure single login flows, authentication tracking, and dynamic session contexts.
- Implemented complex **Role-Based Access Control (RBAC)** across the hierarchy tree (Admin → RFO → DCF → CCF → APCCF), preventing unauthorized route traversal and cross-tenant leakage.
- Engineered an administrative user management dashboard featuring structural tree rendering to seamlessly map reporting relationships via `parentOfficerId`.
- Built data validation routines forcing profile completion (PIN/area codes) before opening dashboard route permissions.

Selected Technical Projects

AI-Powered Cyberbullying Detection Platform

Python, Flask, Scikit-learn, SVM, TF-IDF

- Shortlisted for the **Unisys Innovation Program (UIP)**; engineered a multi-model NLP categorization matrix.
- Programmed textual cleaning algorithms, balancing raw corpus distributions via optimized feature extraction.
- Combined TF-IDF text vectorizers with Support Vector Machines (SVM), storing diagnostic inputs into an SQLite layer.

Emotion Detector Application

Python, Flask, Natural Language Processing, HTML/CSS

- Built an end-to-end NLP sentiment parsing engine using Flask to detect, analyze, and classify multi-class text-based emotional states.
- Implemented optimized data preprocessing pipelines, including text tokenization, stop-word elimination, and lemmatization, to drastically refine raw text feature extraction layers.
- Integrated an interactive, responsive web interface utilizing asynchronous frontend hooks to render real-time emotional diagnostics and metrics.

Fake Account Classification System

Python, Machine Learning, Data Preprocessing, Scikit-learn

- Developed a robust machine learning classification architecture in Python designed to isolate and identify fraudulent platform personas using profile metadata.
- Executed comprehensive exploratory data analysis (EDA) and iterative feature engineering workflows on historical user footprints, minimizing false-positive categorization rates.
- Evaluated modeling outcomes across alternative algorithmic structures utilizing validation parameters (Precision, Recall, F1-Score) to guarantee stable deployment stability.

Leadership & Certifications

- Chair** – IEEE Computer Society Student Chapter: Orchestrated technical hackathons and academic software tracks.
- IBM AI and Application Development** (Coursera) — **AWS Cloud Technical Essentials**