

Manoj Kumar B V

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EDUCATION

R V College of Engineering, Bengaluru

Bachelor of Engineering in Computer Science

MEI Polytechnic, Bengaluru

Diploma in Computer Science and Engineering

Dec 2023 – Jun 2026

CGPA: 8.28

Nov 2020 – Nov 2023

CGPA: 9.88

EXPERIENCE

Machine Learning with Python Intern

May 2024 – Jun 2024

Byte Uprise

Remote

- Applied machine learning principles to build, train, and optimize models using Python libraries including Scikit-learn, Pandas, and NumPy.
- Contributed to multiple data-driven projects, strengthening foundational knowledge in model development, data preprocessing, and evaluation.

PROJECTS

Blood Bank Management System (GitHub)

June 2024

- Developed a full-stack web application using **React, Node.js, and MySQL** to manage donors, patients, and blood inventory with billing features.
- Designed and implemented a secure admin dashboard for managing staff roles, visualizing inventory statistics, and ensuring data integrity.
- Engineered RESTful APIs to handle core functionalities, including user authentication, inventory checks, and transaction logging.

GenAI-Powered Pull Request Summarizer (GitHub)

June 2025 – July 2025

- Built a CLI tool using **Python, local LLMs (LLaMA 3), and FAISS** to automatically generate structured, context-rich summaries of GitHub pull requests.
- Engineered a semantic retrieval pipeline using vector embeddings to ground summaries in OpenMP specifications, ensuring high technical accuracy.
- Successfully aligned tool output with requirements from an **llvm-project** issue, demonstrating practical application for large-scale open-source projects.

Blockchain-Based DNS System (GitHub)

July 2025

- Engineered a decentralized DNS platform using **Python, Flask, and a custom Blockchain** with Proof-of-Work for tamper-proof domain mapping.
- Integrated a **Machine Learning model** for proactive detection of malicious domains, enhancing the system's security and trustworthiness.
- Designed a scalable, multi-node architecture with real-time synchronization and a REST API for robust, cross-node management.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (MySQL), JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn

Developer Tools: Git, Docker, VS Code, Visual Studio

COURSES & CERTIFICATIONS

- Data Science for Engineers** - NPTEL
- Edge Computing** - NPTEL

ACHIEVEMENTS

- Secured **56th** rank in the DCET Examination held across Karnataka.