

BALLA MANISH RANGANATHA CHOWDARY

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SUMMARY

Final-year Computer Engineering student specializing in AI-powered full-stack development. Proven track record building production-ready applications using React, Next.js, FastAPI, Django, and ML frameworks. Strong expertise in deploying scalable cloud-native solutions with Docker, Kubernetes, and AWS. Passionate about creating intelligent, user-centric applications that solve complex real-world problems.

TECHNICAL SKILLS

Languages & Frameworks: Python, SQL, React.js, Next.js, FastAPI, Django REST Framework, Streamlit
AI & Machine Learning: TensorFlow, PyTorch, Scikit-Learn, NLTK, NLP, RAG, LLaMA, Generative AI
Databases: MySQL, PostgreSQL
Cloud & DevOps: AWS, Google Cloud Platform, Docker, Kubernetes, Git, Configuration Management
Data Science: NumPy, Pandas, Data Analysis, Ensemble Models, Random Forest

EDUCATION

Bachelor of Technology in Computer Engineering	Sep 2022 – Jun 2026
Presidency University, Bangalore	
Class XII (MPC) – 95.4%	Jun 2020 – Mar 2022
Resonance Eduventures Limited	

PROJECTS

Double Blind Token System for Government Services — Next.js, Django REST, PostgreSQL, Docker, K8s

GitHub: Double-Blind-Token-System

- Architected production-ready open-source platform eliminating corruption in public services through complete anonymity between citizens and officers using double-blind encryption
- Implemented containerized microservices architecture with Docker and Kubernetes for scalable deployment
- Integrated AI-driven automation to prevent bribery and bias, processing 1000+ concurrent user requests
- Built RESTful APIs with Django and responsive frontend using Next.js with server-side rendering

Generative UI for Accessibility — React.js, LLaMA, Retrieval-Augmented Generation

GitHub: Adaptive-Generative-UI-for-Accessibility

- Developed React framework leveraging Generative AI and RAG to dynamically regenerate UI layouts based on user accessibility needs in real-time
- Implemented LLaMA integration for adaptive interface generation supporting tremors, low vision, and cognitive focus
- Created component library with 50+ accessible UI patterns automatically optimized for diverse user requirements

Differentiated Caseflow Management System — React.js, FastAPI, MySQL, Python

GitHub: DCM-Caseflow-Management

- Built comprehensive legal case management platform streamlining judicial workflows with intelligent case allocation and tracking
- Designed RESTful backend with FastAPI achieving 200ms average response time for complex queries
- Implemented MySQL database schema managing 10,000+ cases with optimized indexing and query performance

Job Recommendation System — Python, Streamlit, Scikit-Learn, NLP, Random Forest

GitHub: Job-Recommendation-System

- Developed ML-powered recommendation engine analyzing user skills and preferences using NLP and ensemble models
- Achieved 87% recommendation accuracy using Random Forest classifier with hyperparameter tuning
- Built interactive Streamlit dashboard for real-time job matching with 500+ job postings

CERTIFICATIONS

- **AWS Cloud Technical Essentials** – Amazon Web Services — Dec 2024

- **Developing Applications in Python on AWS** – Amazon Web Services — Dec 2024
- **Providing Technical Support for AWS Workloads** – Amazon Web Services — Dec 2024
- **Databases and SQL for Data Science with Python** – IBM — Dec 2024
- **Python for Data Science, AI & Development** – IBM — Dec 2024
- **Introduction to AI and Machine Learning on Google Cloud** – Google Cloud — Dec 2024
- **Configuration Management and the Cloud** – Google — Nov 2023