GOKUL YADHAVA G

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Education

Dayananda Sagar Academy of Technology and Management *Bengaluru, Karnataka*
Bachelor of Engineering in Information Science & Engineering *Aug. 2022 – Present*
GPA: 8.55 — Courses: OS, AI, Full Stack Development

Christ Junior College *Bengaluru, Karnataka*
Pre-University Education *June 2020 – July 2022*
Percentage: 96.6% — Courses: PCM with CS

Experience

Machine Learning Intern *Remote*
Headgen.ai *Apr. 2024 · Jul. 2024*
- Performed preliminary data preparation, cleaning, and annotation for model input.
- Organized image datasets and developed preprocessing pipelines using Python scripts.
- Collaborated with the team to fine-tune machine learning models for enhanced accuracy.

Projects

Automation Toolkit for SAFe Agile Processes using Generative AI   Oct. 2024 · Dec. 2024
- Implemented ML models to automate task assignment in Agile teams using Jira data.
- Applied NLP to analyze workload distribution and task complexity.
- Designed asynchronous backend communication to efficiently handle concurrent task updates and API requests.
- Led technical documentation aligned with SCRUM practices.
- **Tech Used: Python, FAST API, Pandas, scikit-learn, Spacy**

Full-Stack Digital Wallet Application   Jan. 2025 · Present
- Engineered a fintech application with user authentication, account management, and money transfers.
- Built RESTful APIs using Express.js and implemented JWT-based authentication with bcrypt.
- Designed responsive React frontend with Tailwind CSS and React Router.
- Integrated secure transaction logic with error handling and input validation.
- **Tech Used: React.js, Node.js, Express.js, JWT, Axios, Tailwind CSS, Vite**

Twitter Analytics on the Cloud — CMU, Cloud Computing   Feb. 2025 · Present
- Built distributed microservices for blockchain verification, QR code generation, and user recommendations.
- Performed large-scale ETL, reducing 1TB of raw Twitter data to 35GB for analysis.
- Achieved throughput of 100,000+ requests/sec within a $1.28/hr cloud budget.
- **Tech Used: Java, Spark, AWS, Databricks**

Benchmarking Pipelines for Tabular Machine Learning Models   Jan. 2025 · Present
- Developed a cross-library benchmarking framework for tabular ML models (scikit-learn, XGBoost, CatBoost).
- Handled inconsistent CSVs, missing data, and categorical encoding through preprocessing.
- Implemented hyperparameter tuning with real-time performance visualization.
- Created Streamlit-based UI with SHAP and 3D radar charts for model comparison.
- **Tech Used: Python, Streamlit, Pandas, SHAP, scikit-learn, XGBoost**

Technical Skills

Languages: Java, JavaScript, Python
Web Technologies: React.js, Node.js, Express.js, HTML/CSS, RESTful APIs
DevOps & Cloud Basics: Git, Docker (Containerization), CI/CD Pipelines, Basic Cloud Concepts (AWS/GCP)
Database Technologies: SQL (PostgreSQL, MySQL), NoSQL (MongoDB), ORM (Prisma)
Operating Systems: Linux (Ubuntu – User-Level Operations, Shell Commands)
Other Skills: Debugging & Troubleshooting, JWT Authentication, Agile Methodology