

Aarush C V

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EDUCATION

JSSATE

BE, CSE(AI&ML) - CGPA – 7.04

12 2022 – 05 2026

Bangalore, India

Baldwin Co-Education Extension High School

ICSE - Percentage – 94.4%

06 2007 – 05 2020

Bangalore, India

COURSEWORK / SKILLS

- | | | | |
|--------------------------------|-------------------------------------|---------------------------|------------------------|
| . Data Structures & Algorithms | . Computer Networks | . Artificial Intelligence | . Discrete Mathematics |
| . Operating Systems | . Database Management System (DBMS) | . Theory Of Computation | . Machine Learning |

PROJECTS

Stock Portfolio Management with Expert Predictions and Driven Insights

12 2024

Developed a robust ML-based framework to predict Tesla's stock price movement using historical data, quarterly financial indicators, and sentiment features. Implemented Logistic Regression, Support Vector Classifier (SVC), and XGBoost models to classify price direction with high accuracy. Employed comprehensive data preprocessing, feature engineering, and hyperparameter tuning strategies. Evaluated models using precision, recall, F1-score, and AUC metrics. The system was deployed for real-time analysis, integrating market data pipelines and demonstrating practical applications in trading automation, risk management, and financial decision support.

Full-Stack Restaurant Management System (Django, PostgreSQL)

01 2025

Designed and developed a full-stack Restaurant Management System using Django, implementing core modules for Menu, Orders, Tables, Reservations, Inventory, and Sales Reporting. Engineered a RESTful architecture with CRUD functionalities across all models, enabling efficient management of daily restaurant operations. Integrated dynamic form handling, user-friendly templates, and seamless routing via Django URLs and Views. Built complex relationships between models such as Orders and MenuItem using Django ORM, optimizing performance and scalability. Implemented data aggregation for generating real-time sales reports, improving business decision-making. Emphasized clean MVC design, reusable components, and robust exception handling, aligning with enterprise-grade development practices.

AI-Driven Career Pathway & Resume Intelligence Platform

04 2025

Developed CareerCompass, an AI-powered career development platform using Python, Flask, and Gemini API, enabling personalized career roadmaps, resume analysis, peer comparisons, and real-time mentorship. Designed a RESTful architecture with CRUD support across modules like Roadmaps, Resumes, and Progress Tracking. Engineered intelligent resume scoring, dynamic form-based resume builder, and interactive frontend with HTML/CSS/JS. Optimized backend using Flask Views, secure API integrations, and data aggregation for real-time insights. Emphasized modular MVC design, robust validation, and production-grade practices. *Secured 2nd prize at Anantham Hackathon conducted by JSSATEB.*

SKILLS

Languages: Python, C++, C, Java, HTML, CSS, JavaScript, MySQL, PostgreSQL

Developer Tools: Django, RESTful APIs, Jupyter Notebook, Git, VS Code

Technologies/Frameworks: RESTful API Design, ORM, Authentication & Authorization, Middleware Integration, Celery, Docker, Deployment (AWS), Supervised/Unsupervised Learning, Model Development, scikit-learn, XGBoost, SVM, Logistic Regression, Model Evaluation Metrics (Accuracy, AUC, F1-score)

Soft Skills: Cross-functional Collaboration, Ownership & Accountability, Analytical Thinking, Adaptability, Agile Methodology, Technical Communication