

SHIVA CHANDAN PATEL K S

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Education

Canara Engineering College-Mangalore,Karnataka

Nov 2021 – June 2025

Bachelor of Engineering in Computer Science

CGPA-7.30

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

Experience

Nxtalign

Feb 2025 – Present

AI and Data Science Intern

Bangalore, Karnataka

- Developed and deployed machine learning models utilizing Python and libraries including Scikit-learn to address engine failure prediction,yielding a 10% reduction in false alarms
- Designed and built a Python-based tool for aerospace data analysis, focusing on identifying trends and anomalies in flight performance metrics using Pandas, NumPy, and Matplotlib/Plotly.
- Engineered modules for the aerospace tool, encompassing data collection and preprocessing, anomaly detection using algorithms like Isolation Forest and One-Class SVM, and report generation for actionable insights.
- Utilized developer tools including VS Code, Git/GitHub, and SQLite or PostgreSQL for project development, while also contributing to data pipeline development using SQL

Projects

End-to-End CI/CD Pipeline for Java-based Application | *Python, Java, YAML,Maven*

January 2024

- * Designed and orchestrated fully automated CI/CD pipelines for both Java applications, showcasing expertise in DevOps methodologies and tools.
- * Integrated SonarQube for static code analysis, automating code quality and security checks, and implemented automated testing to ensure robust and reliable deployments
- * Streamlined application delivery, significantly reducing manual deployment time and minimizing human errors, demonstrating a focus on efficiency and automation to improve the software development lifecycle.

Sentiment analysis on Air Line tweets | *Python, MYSQL*

November 2024

- * Utilized R Studio to perform sentiment analysis on 14,000 tweeter reviews of six major airlines.
- * Performed data cleaning and text analysis to successfully identified the major complaints for each airline.
- * Applied regression and machine learning to produce a final model with an accuracy of 88 percent and lift of 34 percent.

End-to-End CI/CD for Golang Web Application | *Golang, YAML, ShellScript, Argo CD,Kubernetes*

October 2024

- * Implemented full DevOps pipeline for a Golang web application,including multi-stage Docker builds for containerization.
- * Created and configured Kubernetes manifests and set up a Kubernetes cluster to manage application deployments.
- * Automated Continuous Integration (CI) with GitHub Actions to ensure seamless build and testing processes.
- * Deployed application via Continuous Delivery (CD) using Argo CD and GitOps principles for automated, error-free delivery.

Technical Skills

Languages: C++, Python, Java, C, HTML/CSS, JavaScript, SQL, Golang

Developer Tools: VS Code, Google Cloud Platform, Kubernetes, Terraform, Docker, Sonarqube, Git/Github Actions, AWS platform, Microsoft Azure, PowerBI, Tableau

Technologies/Frameworks: Linux, Jenkins, GitHub, Junit, Hadoop, Spark

Leadership / Extracurricular

Fraternity

June 2021 – April 2025

Member

Canara Engineering College

- * Led the fraternity's initiative to identify and assess local and global societal challenges, including poverty, environmental sustainability, mental health, education, and healthcare access.
- * Designed and implemented Standard Operating Procedures (SOPs) for addressing key social issues.
- * Contributed to the successful completion of over 10 community-driven initiatives, impacting over 500 individuals in local communities.
- * Received recognition for outstanding contributions to social good and collaborative efforts with other campus organizations.