

# SHIVA CHANDAN PATEL K S

Mangalore, Karnataka

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## Education

### Canara Engineering College-Mangalore, Karnataka

Bachelor of Engineering in Computer Science

Nov 2021 – Jun 2025

CGPA-7.77

## Relevant Coursework

- |                        |                       |                           |                         |
|------------------------|-----------------------|---------------------------|-------------------------|
| • Data Structures      | • Algorithms Analysis | • Artificial Intelligence | • Operating System      |
| • Software Methodology | • Database Management | • Internet Technology     | • Computer Architecture |

## Experience

### Nxtalign

AI and Data Science Intern

Feb 2025 – Jun 2025

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

- Constructed and Mechanized comprehensive CI/CD pipelines for Java applications, seamlessly integrating into the Software Development Life Cycle (SDLC) to enhance development, testing, and deployment phases.
- Integrated SonarQube for static code analysis, automating code quality and security checks, and Executed Programmed 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 life cycle.

### Sentiment Analysis on Air Line Tweets | Python, MySQL

- 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

- Formulated a robust, end-to-end DevOps pipeline for a Golang web application, leveraging advanced multi-stage Docker builds for optimized containerization and accelerated development workflows.
- Created and configured Kubernetes manifests and set up a Kubernetes cluster to manage application deployments.
- Streamlined Continuous Integration with GitHub Actions to ensure seamless build and testing processes.
- Deployed application via Continuous Delivery using Argo CD and GitOps principles for automated, error-free delivery.

## Technical Skills

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

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

**Technologies:** Linux, Jenkins, GitHub, Junit, Hadoop, Spark

**Methodologies:** Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), Agile, DevOps

## Extracurricular

### Fraternity

Member

Jun 2021 – Apr 2025

Canara Engineering College

- Spearheaded impactful community initiatives, leading the strategic assessment of societal challenges and designing Standard Operating Procedures (SOPs) that guided over 10 successful community-driven projects.
- Contributed to positive social change by directly impacting over 500 individuals and earning recognition for outstanding collaborative efforts within the campus community.