Shiva Chandan Patel K S

Mangalore, Karnataka
8050245935 shivachandan32@gmail.com linkedin.com/in/shivachandanpatel github.com/Shivachandan32

Education

Canara Engineering College-Mangalore,Karnataka **Nov 2021 – Jun 2025**
Bachelor of Engineering in Computer Science *CGPA-7.77*

Relevant Coursework

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

Experience

Nxtalign **Feb 2025 – Jun 2025**
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.
- Implemented modules utilizing Anomaly Detection algorithms (Isolation Forest) to proactively identify and diagnose performance issues (simulating defect identification) in complex aerospace data.
- 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, Automated Static Testing and code quality/security checks, utilized Junit/Programmed Testing for Regression and Functional Test Execution to ensure robust 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, React js, Node js, Golang
Developer Tools: VS Code, Google Cloud Platform, Kubernetes, Terraform, Docker, Sonarqube, Git/Github Actions, AWS platform, Microsoft Azure, Jira, Postman, Newman, PowerBI, Tableau
Technologies: Linux, Jenkins, GitHub, Junit, Hadoop, Spark
Methodologies: Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), Agile, DevOps, Scrum

Extracurricular

Fraternity **Jun 2021 – Apr 2025**
Member *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.