

Mullaguri Kanishka Venkat Sai

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Work Experience

Hewlett Packard Enterprise (HPE)

Feb 2025 – Present

Careers Pre-Program, Project Intern

- Built a Jenkins CI/CD pipeline integrating SonarQube and MongoDB for automated code analysis and reporting.
- Deployed the system on AWS EC2 and developed a Python-based sync process for storing analysis results.
- Developed a machine learning model for malicious URL classification using SVM-light formatted data.

Education

Vellore Institute of Technology AP

Nov 2022 – Apr 2026

B.Tech in Computer Science and Engineering – 9.22/10

Sainik School Korukonda

Jun 2015 – May 2022

Class X: 93.8% — Class XII: 85.8%

Projects

Jenkins CI/CD Pipeline with SonarQube and MongoDB

Tech Stack: Jenkins, SonarQube, Bash, Python, MongoDB, AWS EC2

- Built a **Jenkins CI/CD pipeline** with **SonarQube**, cutting static analysis time from **days** to **minutes** and reducing the average **33%** developer time lost to technical debt remediation ([SonarSource](#)).
- Deployed on **AWS EC2** with automated metric processing via Bash, Python ETL, and REST APIs; centralized results in **MongoDB** for rapid insights.
- Integrated **Google Gemini API** for scan-based suggestions and used **Jenkins Email Plugin** to auto-send reports with recommendations.

Malicious URL Classification

Tech Stack: Python, Scikit-learn, LightGBM, Pandas, NumPy, Matplotlib, SVM-light

- Developed a **machine learning pipeline** for classifying malicious URLs from large-scale SVM-light datasets spanning **120 days**.
- Reduced the feature space from **3.2M to 80K columns** using **Variance Threshold** without accuracy loss.
- Achieved **97.5–98% accuracy** consistently using **LightGBM**, with evaluation via accuracy, F1-score, and ROC AUC.

Pustak Prabhodak

Tech Stack: Python, MySQL, mysql-connector-python

- Developed a CLI application with **secure user authentication** by validating credentials against a **MySQL** database.
- Implemented **inventory management** and **sales tracking** with real-time **CRUD** operations on 50–100 records.
- Applied **input validation** and **error handling** to preserve **data accuracy** and **database integrity**.

Technical Skills

- **Languages:** Java, R, Python
- **Databases:** MySQL, MongoDB
- **Tools:** Jenkins, AWS EC2, SonarQube, MySQL Workbench, GitHub, Eclipse IDE, Google Colab
- **Coursework:** DSA, OOPS, DBMS, OS, CN, AWS Solution Architecture

Certifications & Achievements

- AWS Certified Cloud Practitioner – Amazon Web Services ([View Certificate](#))
- Certificate of Participation in AI/ML for Geospatial Data Analysis – Indian Institute of Remote Sensing (IIRS) & Indian Space Research Organisation (ISRO) ([View Certificate](#))
- Certified in CS50's Introduction to Python – Harvard University ([View Certificate](#))