

MANTRIPRAGADA SABDA PYARI

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SUMMARY

A recent **B.Tech** Graduate in Electrical Engineering with a Computer Science specialization, demonstrating a strong passion for software development. Proficient in Python, Java, and OOP principles with hands-on experience building and deploying software applications using Flask and Django. Eager to contribute to real-world projects and learn software methodologies like Scrum, Automated Testing, and Continuous Integration as a Futures Technology Engineer at Clarivate

EDUCATION

B.Tech in Electrical Engineering (Computer Science Specialization)

2021- 2025

Dayalbagh Educational Institute, Agra

TECHNICAL SKILLS

- Programming Languages: Python, Java, SQL, C
- Tools & Platforms: Git, GitHub, Linux, IBM Cloud, Jira, Jenkins
- Software Methodologies: Agile, Scrum, Automated Testing, Code Versioning, CI/CD, Code Refactoring, Problem Analysis, User Stories
- Concepts: Object-Oriented Programming (OOP), RESTful API Development, Debugging

TECHNICAL TRAINING

- Summer Analytics 2024 - Indian Institute of Technology, Guwahati
- Python for Everybody Specialization – University of Michigan (Coursera)

PROJECTS

Optimized Disease Diagnosis Model (ACO-K-Means)

- Engineered a hybrid optimization model, requiring meticulous data preparation and feature engineering, which improved clustering accuracy by ~23%.
- Systematically evaluated outcomes using precision, recall, and F1-score, demonstrating a commitment to data quality and robust results.

Real-Time Weather Dashboard

- Engineered a modular, object-oriented Python application to fetch and display real-time weather data, demonstrating strong software design principles and problem analysis skills.
- Developed and consumed RESTful API endpoints to serve weather summaries, translating high-level requirements into functional code.
- Utilized Git for code versioning throughout the development lifecycle and stored historical data in SQLite for efficient retrieval.

Intelligent Form Agent

- Created an AI agent that reads and understands documents using OCR text extraction and NLP question- answering
- Automated form data extraction with high accuracy for fields like invoice numbers, dates, and amounts
- Built end-to-end system handling both digital and scanned documents with error handling.

EXPERIENCE

Co-op Intern Centre for Development of Advanced Computing (C-DAC)

April 2023– Sep 2024

Project: Development and Customization of Utilities for AIRAWAT-PSAI System (HPC-AI-IT Infrastructure & Operations)

- Developed and customized software utilities for monitoring the AIRAWAT-PSAI HPC-AI system.
- Automated system performance tracking using Zabbix, enhancing resource monitoring efficiency and proactive issue identification in a Linux virtualized environment.

Genisup India Pvt Ltd | Python Developer Intern

April 2023 – June 2023

- Automated CSV data validation using Python, **reducing processing errors by 30%** and improving data integrity for business reports.
- Developed internal dashboards to visualize data trends and enable **data-driven decisions**.