

KARTIK ASWANI

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Technical Skills

Languages and Databases: Python, C++, Pandas, Numpy, SQL, MySQL

Visualization Tools: Seaborn, Matplotlib, Pygame

Other Skills: Microsoft Excel, Data Analysis, Data Visualization

Experience

ISSA, DRDO

January 2025 – Present

Software Engineering Intern

New Delhi, India

- Initiated development of **radar system software using Python**, focusing on **data acquisition** and **processing modules**.
- Utilized **Pandas** to structure and manipulate large radar datasets for improved **data management and analysis**.
- Created initial data visualization prototypes using **Matplotlib** and **Seaborn** to aid in understanding **radar signal trends and anomalies**.
- Developing **modular Python code** to ensure scalability and ease of future updates in radar software functionality.
- Collaborating with mentors to define and refine **radar system requirements**, translating them into **actionable development tasks**.
- Documented progress and design decisions to ensure transparency and streamline future development efforts.

Personal Projects/Awards & Achievements

Credit Card Fraud Detection using Python | *Data collection and Cleaning , Exploratory Data Analysis*

- Achieved proficiency in Python, with a focus on data analysis libraries such as **Pandas**, **NumPy**, and **Matplotlib**, completing over **30 exercises** and mini-projects.
- Contributed to a project developed by a team of 4, with responsibilities that included **writing over 500 lines of code** and presenting findings, resulting in the successful completion of the project.
- **Collected, cleaned, and preprocessed datasets of over 100,000 rows**, ensuring **data quality and integrity** for reliable analysis.
- **Scored 85 out of 100** on a final data science project, demonstrating a solid understanding of **data science** and machine learning concepts in Python.

Mp3 player using Python | *Python Programming, Audio Processing, Pygame Expertise*

- Developed an MP3 player with **6+ key features**, including **play, pause, shuffle, forward**, and **backward functionality**, using over 100 lines of Python code.
- Utilized **Pygame** for **audio playback** and control, ensuring **seamless transitions and enhanced user experience**.
- Designed an intuitive user interface for **seamless navigation and control**.
- Implemented **error-handling** routines to improve reliability, reducing potential playback issues by **80%** through rigorous testing.

Awards & Achievements

- **Scored 85 out of 100** marks in summer training course by **Veeyo Tech Private Limited**.
- Completed 7 days of Bootcamp and got a certificate from **GDSC KIIT Chapter**.

Education

Bharati Vidyapeeth's College of Engineering

Dec 2021 – Present

Bachelor of Technology in Information Technology

New Delhi, India