

SHIVAM KUMAR GOEL

✉ 19.skgoyal@gmail.com ☎ +91-9717379687 in Shivam Goyal

Objective

Seeking a challenging position to leverage my skills in Python, SQL, machine learning, and data analytics to drive innovative solutions and data-driven decision-making.

Experience

Defence Research & Development Organisation (DRDO), Bengaluru, India

Project Engineer

Sep 2022 - Mar 2023

- Developed an advanced application using Python, Streamlit, MongoDB, and Plotly to manage aircraft configurations, apply rules to various parameters, and generate detailed HTML reports, significantly enhancing maintenance tracking and compliance.
- Created a machine learning model in the "Analytics of Post Flight Data Towards Preventive Maintenance" project, successfully detecting anomalous flights through advanced clustering algorithms and feature engineering techniques.

Noida Institute of Engineering and Technology, Greater Noida, India

Assistant Professor

Jul 2023 - May 2024

- Worked as an Assistant Professor, teaching students, conducting result analysis, and developing new curriculum.

Projects

Post Flight Data Analysis Application

Sep 2022 - Mar 2023

- Developed an application using Python, Streamlit, MongoDB, and Plotly, capable of saving and managing 100+ aircraft configurations based on various aircraft types.
- Implemented rule-based visualizations for 100+ parameters, enhancing the detection and analysis of rule violations.
- Generated comprehensive HTML reports detailing the application of 50+ rules across different parameters, improving maintenance and compliance tracking.

Analytics of Post Flight Data towards Preventive Maintenance

Jan 2023 - May 2023

- Utilized feature engineering and statistical methods to extract the most relevant features for analysis.
- Implemented dimension reduction techniques to streamline data and enhance model performance.
- Enhanced predictive maintenance strategies by identifying patterns and anomalies in flight data.

Education

Defence Institute Of Advanced Technology, Pune

Maharashtra, India

M.Tech in Data Science

CGPA: 7.73, Aug 2021 - May 2023

Noida Institute of Engineering and Technology, Greater Noida

Uttar Pradesh, India

B. Tech in Mechanical Engineering

CGPA: 7, Aug 2014 - Jul 2018

Technical Skills

Languages: Python3, SQL, C++.

Developer Tools: VSCode, Jupyter Notebook, Google Colaboratory, Docker.

Technologies/Frameworks: Linux, TensorFlow, NLTK, Keras, Scikit-learn, MySQL, PostgreSQL, AWS.

Subjects: Machine Learning, Deep Learning, Computer Vision.

Data Visualization Tools: Matplotlib, Seaborn, Plotly, Tableau.

Achievements

- Solved 200+ coding problems using Python3 on various platforms (Leetcode, GFG, Hackerrank).
- Gold Badge in Python on Hackerrank [!\[\]\(bc93c0b9ce2c73370fb399a70d8c16ab_img.jpg\)](#)
- Completed 19 courses on Coursera covering Python, SQL, Data Science, Machine Learning [!\[\]\(5b0d3aecef0052ba769c77ea4d584ce5_img.jpg\)](#)