HARSH GUPTA

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"With 3+ years of experience working with python, machine learning, and problem solving. I am a machine learning engineer with a passion for solving problems with my skills and I'm looking forward to more challenging roles."

Education

| 2016-2020 | **M.I.E.T** (Dr A. P. J. Abdul Kalam Technical University) | Lucknow |

B.Tech in Computer Science Engineering

- Was ranked 8th in the merit list of the CSE Department.
- **Authored** a research paper on the application of deep learning models to skin lesion disease that was published in a major journal.

| 2014-2016 | **Central Board of Secondary Education** | Meerut |

Class 12 - Dayawati Modi Academy - 1
Class 10 - Dayawati Modi Academy - 1

Experience

| 2020-present | **Tata Consultancy Service Limited** | Noida |

Machine Learning Engineer

- Analyzed and classified historical ticket and events data, accelerating troubleshooting and **issue resolution by 50%**. Also, played pivotal role in crafting a web application using a streamlit python package to showcase various trends and reports.
- Worked on prediction of device outages and failure on the basis of various device performances metrics, which helps
- Developed a POC for the retail division to assess marketing ad spending and its impact on overall sales profitability. This involved crafting a dataset, conducting preprocessing, and constructing a regression model to forecast total sales. Additionally, generated an EDA report utilizing the Plotly package.
- Collaborated in a healthcare team, incorporating cleaning and visualizing a large dataset, using pyspark for efficient data handling, **resulting in a 70% model efficiency** boosted through feature engineering.

Software Engineer

- Created Python scripts for automation of VNF(Virtual Network functions) file generation and deployment process, **achieving a 40% reduction** in process time.
- Worked on server-client interface development using Spring Boot , also helped in introducing an android app to test all the required use case scenarios.

Projects

2023 **Analyze Your Data**
- Constructed a platform which enables comprehensive dataset analysis through statistical insights and graphical representations and also deployed it on streamlit cloud for web application hosting.

2021 **Stock Price Analysis**
- Actively utilized different types of moving average-based models, to analyze and visualize trends in various stocks. Recognized for the ability to effectively utilize stock data to generate meaningful insights and predictions.

2020 **Skin Cancer Analyzer Application**
- Developed an image classification model on a dataset containing nine types of significant skin cancer images. Employed transfer learning on the CNN layers, achieving an impressive 94.1% validation accuracy. Utilized TensorFlow-Keras for the implementation.

Skills

Business: Python, Dashboard Generation, Data Analysis, Data Visualizations, SQL, Sklearn, CI/CD, Scrum Methodology

Tools: VS-code, Databricks, Github, Jira, Dbeaver, Postman, Pycharm.