

# Harsh Gupta

## Machine Learning Engineer

Goal-oriented Python Developer with 2+ years of experience in Python , MongoDB , Flask , Data Analysis , Retail and Healthcare. Able to work well independently or as a part of a team to complete the task efficiently and effectively.

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## WORK EXPERIENCE

### Python Developer

Tata Consultancy Service Limited, New Delhi

09/2020 - Present

#### Achievements/Tasks

- Developed new features in the orchestrator web application which increases the productivity and tools includes like Flask, HTML, CSS, and MongoDB.
- Developed automation scripts using python packages to easily leverage the configuration generation and deployment of the virtual network functions, which increases the overall efficiency of the process. Tools used are pycharm, GitLab, and Putty.
- Worked on POC for the retail unit to analyze the marketing ads expenditure and total sales cost, which included the creation of the dataset, preprocessing, and then building a regression model to predict the total sales. Generates EDA report using plotly package.
- Collaborated with a team to work on a large healthcare dataset, incorporating data cleaning, visualization, and building a model pipeline. Used pyspark that resulted in handling the data easily and increased model efficiency by 70% through feature engineering and selection.

## EDUCATION

### Bachelor of Technology in Computer Science

Meerut Institute of Engineering and Technology, Meerut

08/2016 - 09/2020

CGPA:8.55

#### Courses

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

## SKILLS

Python

Pyspark

Data Analysis

Flask

Machine Learning

Statistics

Deep Learning

Data Science

Sklearn

Tableau

Kubernetes

## PERSONAL PROJECTS

### Image Regeneration

- Built a neural style transfer image regeneration web interface. The interface was able to take an input image and generate a new image based on the user's desired style.
- Used Tensorflow Hub , Flask and Streamlit to host the web application.

### Stock Price Analysis

- Actively utilized different types of moving average-based models, such as ARIMA and SARIMA, to analyze and visualize trends in various stocks. Recognized for the ability to effectively utilize stock data to generate meaningful insights and predictions.
- Demonstrated expertise in building Bidirectional LSTM models to predict future prices with a high degree of accuracy.

### Skin Cancer Analyzer Application

- Built the model on a dataset that included 9 types of significant skin cancer images. Utilized transfer learning over the CNN layers to create an image classification model that resulted in 94.1% validation accuracy.
- Used tensorflow-keras for the implementation.

## CERTIFICATIONS AND HONORS

Deep Learning Engineer - Edureka

Secured 2nd rank in Machine Learning Hackathon in TCS

## INTERESTS

Music

Badminton

Cooking

Gardening