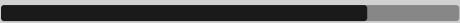


# Shubham Kumar

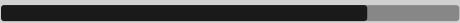
New Delhi  
+91 7004607560  
shubham04689@gmail.com  
<https://shubhamportfolio-ashy.vercel.app/>  
Linkedin:  
<https://linkedin.com/in/shubham04689/>  
Github:  
<https://github.com/Shubham04689>

## Languages

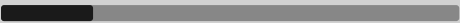
### Python



### SQL

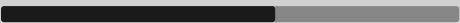


### Javascript



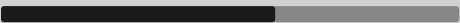
## Skills

### Frameworks:



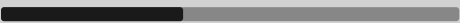
TensorFlow, PyTorch, Flask, Django, Pandas,  
Numpy, Scikit-Learn

### AI/ML:



NLP, Text Analysis, Language Modeling,  
OpenCV, Machine Learning Algorithms

### Tools:



Pytest, cProfile, Pylint, CI- CD Pipelines

## Interests

Exploring the intersection of AI and  
humanity, with a passion for continuous  
learning in emerging AI technologies like  
Explainable AI and Edge AI

## Certifications

### PG Certification

Talent Sprint, in AI /ML Executive training  
Sep 2024  
<https://talentsprint.com/iiit-hyderabad>

## Education

### DIT University

Mechanical Engineering  
5.65/10  
2016-2020

### IIIT Hyderabad

Artificial intelligence and Machine  
learning  
71.11%  
2023-2024

## Summary

Motivated AI/ML developer with extensive experience in Python, TensorFlow, and PyTorch. Demonstrated success in deploying machine learning models in real-world applications, optimizing model performance, and automating processes to improve efficiency by 20-30%. Skilled in building scalable solutions, including RESTful APIs and web applications

## Experience

### Freelance Python Developer

Sep 2023 – Present

Developed and deployed custom software solutions, with a focus on  
improving system performance and efficiency

- API Development:** Developed 10+ RESTful APIs using Flask, reducing API response time by 20% and improving system reliability.
- Automation:** Automated data scraping using Selenium and BeautifulSoup, reducing manual effort by 30% and speeding up data collection processes.
- Machine Learning:** Implemented data analysis and ML models using Pandas and scikit-learn, increasing project accuracy by 15%.
- Code Quality:** Ensured code reliability through Pytest and version control using Git, maintaining a 95% pass rate on test cases.

## Projects

### NLP Text Classification Model

July 2024

- Built and deployed an **NLP** text classification model using **BoW** and **Word2Vec** for text representation. Conducted web scraping and preprocessing with **scikit-learn** and **NLTK**, achieving an **85%+** classification accuracy. Integrated the model into a production system, enhancing document analysis capabilities.

### Image Recognition System

- Developed an image classification system using **CNN** with **TensorFlow**, achieving **90%+** accuracy in real-time image categorization. Optimized the system for scalability, reducing latency by **15%**

### Speech-to-Text Conversion Tool

- Created an application that converts speech into text using deep learning models for natural language processing.
- Implemented using PyTorch and integrated into a web application via REST APIs.

### Face Detection System

- Built a face detection system using deep learning algorithms, leveraging **OpenCV** and **TensorFlow** for real-time face identification.
- Optimized the system for performance on edge devices, achieving high accuracy and low latency in detection.

### Machine Learning & Data Analysis:

Sep 2024

Developed and implemented various machine learning models and techniques using Python in Google Colab  
[https://github.com/Shubham04689/colab\\_notebooks](https://github.com/Shubham04689/colab_notebooks)

Bagging Classifier KMeans Clustering SVM Classifiers (Breast Cancer, Penguins) KNN  
Decision Trees and Perceptron (Iris dataset).

### Dimensionality Reduction & Clustering

Oct 2024

Worked with Isomap, t-SNE, and Hierarchical Clustering for unsupervised learning tasks and data visualization  
[https://github.com/Shubham04689/colab\\_notebooks](https://github.com/Shubham04689/colab_notebooks)

### React + Vite Development:

Oct 2024

Set up minimal React projects with Vite, integrating plugins for Fast Refresh using Babel and SWC, and followed ESLint rules for code quality

### Agent-based Systems

Oct 2024

Developed **Python**-based agent systems involving agent management, **swarm** testing, and configuration, ensuring high performance and modular architecture.