

# Shivanshu Sharma

A versatile individual targeting fields like ML & Data Science (Data Analysis and Data Engineering) in IT sector for an opportunity to apply relevant knowledge and trainings.

Preferably: **PAN India**

## Profile Summary

- Data Science Professional with **more than 1 year** of experience in IT industry
- Created Machine Learning Models & visualization dashboard in Power BI
- **Participated in:**
  - Design discussions and code reviews; integrating and validating new product designs
  - Technical peer reviews, progress and planning meetings (basis the agile development methodology)
- Worked on multiple projects such as Donor Choose, Human Activity Recognition, Quora Questions, NetFlix Recommender System and many more based on ML/AI
- Automated the Release Process for software releases using C#, reduced time taken for the process by 50%
- Proficient in Python, NLP, SQL, Statistics, Data Visualization

## Education & Credentials

- B.E. (Information Technology) from Oriental Institute of science & Technology, Bhopal with 7.04CGPA in the year 2020
- Senior Secondary from Mahatma Hansraj Modern School, Jhansi with 80% in the year 2015

## Certifications and Training

- Completed a Certification Course on C++ from Vedisoft Software & Education Services Pvt. Ltd., in the year 2016
- Applied for a Certification Course on Applied and AI ML from Applied Roots, Currently Pursuing from April'21 – October'22
- Finished a Training process on Python from Engineer Master Solution Pvt. Ltd., in the year 2019

## Achievements

- Created Python Automation Scripts which resulted in shortening the execution time from 20mins to 2mins for Tata Consultancy Services
- Decreased the time complexity by optimizing the algorithm for Tata Consultancy Services
- Corrected multiple data query Bugs on Production server for Tata Consultancy Services- Azure
- Played as a key member for the team that enabled several devices to get connected to the Internet for Tata Consultancy Services
- Worked on a research paper where wrote complex ML model codes

## Professional Experience

**Since March'21 at Tata Consultancy Services, Pune as an Associate Software Engineer**

### Responsibilities:

- Writing & deploying Python automation scripts on production server
- Working on .NET and PowerShell scripting and Power BI reports
- Examining the ML issues and hyper tuning the ML models
- Preparing detailed reports concerning project specifications and activities



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## Key Impact Areas

Software Design & Development

Coding

Testing

Debugging

Production Support

Technical Support

Project Execution

Machine Learning Models

Predictive Modelling

Data Analysis

Research & Evaluation

## Soft Skills

Communication Skills

Teamwork

Adaptability

Analytical

Problem Solving

Flexibility

## Technical Skills

Python || Machine Learning ||  
NLP || Pandas/Numpy ||  
PowerShell || SQL || Power BI  
|| Deep Learning || GitHub ||  
Anaconda || Regex || C/C++ ||  
OpenCV || Statistics || Keras ||  
MatPlotLIB || Seaborn || CNN  
|| LSTM || Transformers ||  
BERT

## Academic Project

- **DonorsChoose Application Screening**
  - Completed NLP on the Donor Dataset for Pre-processing of Data and then applied ML models in order to find whether select the Application for Donation or not
  - GitHub Link- [https://github.com/shivanshupc/Donor\\_Choose](https://github.com/shivanshupc/Donor_Choose)
- **Human Activity Recognition**
  - Created a model that predicts the human activities such as Walking, Walking Upstairs, Walking Downstairs, Sitting, Standing or Laying by applying Deep Learning concepts on the data
  - GitHub Link- [https://github.com/shivanshupc/Human\\_Activity\\_Recognition](https://github.com/shivanshupc/Human_Activity_Recognition)
- **Netflix Movie Recommendation**
  - Predicted the rating that a user would give to a movie that he has not yet rated and recommend movie according to it. Applied the concept of Matrix Factorisation and cosine similarity and created ML models to predict
  - GitHub Link- [https://github.com/shivanshupc/NetFlix\\_Movie\\_Recommendation](https://github.com/shivanshupc/NetFlix_Movie_Recommendation)
- **Quora question Pair Similarity Problem**
  - Checked whether a pair of questions are same or not. Applied NLP concepts on the text data and created models in order to check whether questions are same or not
  - GitHub Link- [https://github.com/shivanshupc/Quora\\_questions](https://github.com/shivanshupc/Quora_questions)
- **CNN on CIFAR-10 Photo Classification**
  - Implemented State-of-Art DenseNet architecture from scratch and trained model on CIFAR dataset to get an accuracy of 92%
  - GitHub Link- [https://github.com/shivanshupc/CNN\\_on\\_CIFR](https://github.com/shivanshupc/CNN_on_CIFR)
- **Data Analysis (EDA) on Haberman's Survival Dataset**
  - Contributed completely by doing the EDA on the Dataset and found some conclusions on the patient's survival. Haberman's Survival Dataset which contains cases from a study that was conducted between 1958 and 1970 at the University of Chicago's Billings Hospital on the survival of patients who had undergone surgery for breast cancer
  - GitHub Link- [https://github.com/shivanshupc/Haberman\\_Cancer\\_Survival](https://github.com/shivanshupc/Haberman_Cancer_Survival)

## Personal Details

**Date of Birth:** 2<sup>nd</sup> March 1998

**Languages Known:** Hindi & English

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