

# Tushar Kumar

Portfolio: portfolio.com

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## EDUCATION

- Tulsi Ram Maheshwari Public School** Ghaziabad (UP)  
*Higher and Intermediate School - PCM* May 2019 - April 2021
- Dr. Kedar Nath Modi Institute of Engineering and Technology** Ghaziabad (UP)  
*Bachelor of Technology - Computer Science and Engineering; GPA: 8.25* July 2021 - June 2025  
*Courses: Artificial Intelligence, Data Structures, Analysis Of Algorithms, Machine Learning, Networking, Operating Systems, Databases*

## SKILLS SUMMARY

- Languages:** Python, C++, SQL
- Frameworks:** Flask, Streamlit, Pandas, Seaborn, Langchain, Scikit-learn, NLP, Tensorflow, Keras
- Tools:** MySQL, SQLite, VS Code, Git & GitHub, Google Collab, PowerBI, Jupyter Notebook
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

- Anudip Foundation** Offline  
*Data Science (AI-ML) Trainee (Full-time)* Oct 2024 - Jan 2025
  - Training Period:** Pursuing a 3-month program, focusing on Data Science and Machine learning with Python.
  - Data Visualization:** Finding insights using Matplotlib, Seaborn, and Pandas for effective visualization analysis.
  - Machine Learning Tools:** Hands-on experience with Scikit-learn, TensorFlow, NLTK and algorithms.
- Cognifyz Technology** Remote  
*Machine Learning Intern (Part-time)* Jan 2025 - Present
  - Analysis & Development:** Analyzed data & finding insights that helped in making informed and effective decisions.
  - Hands-on Machine Learning:** Created project based on supervised, unsupervised and natural language processing.

## PROJECTS

- Gold Price Predictive Model 📊:**
  - Leveraged **RandomForestRegressor** to predict gold prices, achieving an impressive **R<sup>2</sup> score** of **98.89%**.
  - Scaled features using **StandardScaler** for uniform data **distribution**, improve performance for gold price prediction.
  - Through **heatmaps**, **scatterplots**, and **distribution** plots, finding patterns and relationships in gold price..
- Stock Market Prediction Model 📊:**
  - Built a model using **RandomForestRegressor** and technical indicators like **Moving Averages** and **RSI**.
  - Preprocessed data and features to boost prediction **accuracy**, achieving a low **Mean Absolute Error (MAE)**.
  - Evaluated model **performance** and visualized predictions, comparing them with actual **stock prices** for accuracy.
- Neurodegenerative Disorder Prediction System 📊:**
  - Build a model using **Support Vector Machine (SVM)** to predict **Parkinson's disease**, with 89 % accuracy.
  - Preprocessed data by scaling features with **StandardScaler** and optimizing model performance through train-test split.
  - Utilized **SVC model** to enhance prediction accuracy, leveraging key clinical features for effective **disease diagnosis**.
- FakeFinder: AI-Driven News Verifier 📊:**
  - Implemented a model using **Logistic Regression** with **TF-IDF Vectorization** for effective feature extraction .
  - Utilized **NLTK** for stopwords removal and stemming to preprocess and clean textual data.
  - Achieved a **97.91% accuracy** by optimizing model performance through train-test splitting and rigorous evaluation.
- Brain Stroke Prediction Model 📊:**
  - Achieved **95.5% accuracy** in predicting stroke risks using **XGBClassifier**, **LightGBM**, and **RandomForest** models.
  - Improved detection by tackling class imbalance with **SMOTE**, boosting both precision and recall .
  - Tested various models like **Logistic Regression** and **VC Models** to ensure balanced and reliable predictions.

## VOLUNTEER EXPERIENCE

- Community Volunteer for Google Cloud Arcade Program'24** Kolkata, India  
*Managed a community of 1000+ members, offering guidance and support in program.* July 2024 - Sep 2024
- Technical Coordinator for College Functions and Events** Kolkata, India  
*Coordinated college events and activities, ensuring smooth execution and student engagement.* Jan 2018 - Present