

Tushar Kumar

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EDUCATION

- **Tulsi Ram Maheshwari Public School** Ghaziabad (UP)
Higher Secondary 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, Deep Learning, Machine Learning, Databases

SKILLS SUMMARY

- **Languages:** Python, C++, Java, HTML5, CSS3, SQL
- **Frameworks:** Flask, FastAPI, Pandas, Seaborn, Scikit-learn, Tensorflow, Keras, Streamlit
- **Tools:** MySQL, VS Code, Git & GitHub, Google Collab, PowerBI, Jupyter Notebook, Vercel, Advanced Excel
- **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:** Currently undergoing a 3-month program, focusing on Data Science (AI-ML) with Python.
 - **Data Visualization:** Performed data analysis and visualization using Matplotlib and Seaborn to extract key insights.
 - **Machine Learning Tools:** Hands-on experience with Scikit-learn, TensorFlow, NLTK, and various ML algorithms.
- **Cognifyz Technology** Remote
Machine Learning Intern (Part-time) Jan 2025 - Present
 - **Analysis & Development:** Performed data analysis to extract actionable insights for informed decision-making.
 - **Hands-on Machine Learning:** Created projects based on supervised, unsupervised and natural language processing.

PROJECTS

- **GenAI Cold Email Generator Model** 🔄
 - Developed a GenAI model with **Llama 3.1** for text generation, **LangChain** for seamless processing of user queries.
 - **Designed** a Streamlit-based **UI** to assist AI and software service companies in **automate** cold email outreach.
 - **ChromaDB** as a vector store for efficient data retrieval and Python **libraries** for seamless email automation.
- **FakeFinder: AI-Driven News Model** 🔄
 - Implemented a model using **Logistic Regression** with **TF-IDF Vectorization (NLP)** for feature extraction.
 - Preprocessed text using **NLTK** for stopword removal, **stemming**, and **normalization** to enhance model accuracy.
 - Achieved **97.91%** accuracy by comparing models, balancing data with **SMOTE**, and optimizing **hyperparameters**.
- **Multi-Disease Diagnosis Model Using ML** 🔄
 - Built a **multi-disease** prediction model using **Random Forest, SVM, Decision Tree** and **KNN** for comparison.
 - **Optimized** predictions using **SMOTE** for class balancing, **hyperparameter** tuning, and cross-validation.
 - Containerized the model with **Docker** and deployed on **Microsoft Azure**, for scalability and efficiency.
- **Autism Disorder Prediction Model** 🔄
 - Developed a predictive model using multiple **ML** algorithms for comparison, achieving **87%** accuracy on the test set.
 - **Optimized** performance with feature **scaling** and tuning, achieving a **91%** cross-validation score (**5-fold CV**).
 - Deployed on **Render**, making the model easily **accessible** with a user-friendly **API** for predictions.
- **Client Flow Prediction Model (ML)** 🔄
 - Developed model using **boosting** algorithms like **AdaBoost**, Gradient Boosting, and **XGBoost** to improve accuracy.
 - Improved model accuracy by applying encoding, **GridSearchCV** for **hyperparameter** tuning, and evaluated metrics.
 - Built and **deployed** the backend using Python and **Flask**, hosted it on **AWS EC2** (Elastic Compute Cloud).

VOLUNTEER EXPERIENCE

- **Technical Coordinator for College Functions and Events**
Coordinated college events and activities, ensuring smooth execution and student engagement. July 2022 - Sep 2023
- **Community Volunteer for Google Cloud Arcade Program'24**
Managed a community of 1500+ members, offering guidance and support in the program. July 2024 - Sep 2024