TUSHAR KUMAR

CONTACT

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PROFILE LINKS

- LinkedIn
- Github
- Hacker Rank
- Code Studio

CERTIFICATIONS

- Intro of **AI-ML** by **LinkedIn Learning**.
- **Git & Github** by **IBM** Skill Build.

ROLES & RESPONSIBILITY

- Google Cloud **Arcade** Volunteer
- **Event Coordination** for College Functions and Activities

SKILLS

LANGUAGES,LIBRARY & TECHNIQUE

HTML5 | CSS3 | SQL | Flask | Streamlit | Pandas | MatplotLib | Seaborn | Langchain | Scikit-learn | NLP | Tensorflow

PROGRAMMING LANGUAGES

C++ | Python

DEVELOPMENT TOOLS & SERVICES

Visual Studio Code | Git & GitHub | Google Collab | Vercel | Amazon Web Services (AWS) | PowerBI | Jupyter Notebook

COURSE WORK

Artificial Intelligence(AI) | Machine Learning Algorithms | Data Structures and Algorithms | Object Oriented Programming

TRAINING AND INTERNSHIP

- **Anudip Foundation**
  Data Science Trainee
  - Undergoing a 3-month training as a **Data Science Trainee**, specializing in **Machine Learning** with **Python**, **Scikit-learn**, **TensorFlow**, and **Keras**. Skilled in **NLP** (Text Processing, Sentiment Analysis) and proficient in **SQL** for data manipulation.

PERSONAL PROJECTS

- **GenAI Cold Email Generator Model**
  - Built an LLM & Gen AI project using **Llama 3.1** (LLM), **Chromadb** as a vector store, and **LangChain** for powerful processing.
  - Developed with **Streamlit** to help software and **AI services** companies send personalized cold emails to potential clients.
  - Leveraged **LangChain** and **Chromadb** to enhance email generation with relevant data.
- **Neurodegenerative Disorder Prediction System**
  - Developed a model using **Support Vector Machine (SVM)** to predict Parkinson's disease, achieving **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 **stopword 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.

EDUCATION

- **Dr. K. N. Modi Institute of Engineering and Technology** *2021 - 2025*
  B.Tech. (Computer Science & Engineering) 8.25 SGPA
- **Tulsi Ram Maheshwari Public School (CBSE)** *2020 - 2021*
  Class XII (PCM) 78.2 %
- **Tulsi Ram Maheshwari Public School (CBSE)** *2019 - 2020*
  Class X (PCM)