VIVEK SHARMA

Machine Learning | NLP | Deep Learning Enthusiast

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ABOUT ME

I am focused on advancing my expertise in Machine Learning, Natural Language Processing, and Deep Learning through practical, project-based applications. Proficient in developing, training, and deploying models using TensorFlow, Keras, and Scikit-learn, with hands-on experience in data preprocessing, model evaluation, and performance optimization. Passionate about building impactful real-world solutions and continuously exploring emerging techniques to enhance scalability, efficiency, and deployment readiness.

EDUCATION

B.TECH IN ARTIFICIAL INTELLIGENCE & DATA SCIENCE Greater Noida Institute of Technology, Greater Noida, Uttar Pradesh	2022-2026
SENIOR SECONDARY (CBSE) SPS International Academy, Kosi Kalan, Mathura, Uttar Pradesh	2021-2022
HIGHER SECONDARY (CBSE) SPS International Academy, Kosi Kalan, Mathura, Uttar Pradesh	2019-2020

SKILL

- **Languages :** Python, SQL, Java (Basic).
- **Libraries & Frameworks :** TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.
- **NLP :** Text Preprocessing, Word Embeddings, RNN, LSTM, GRU, Attention Mechanisms, Transformer Models.
- **Tools :** Jupyter Notebook, Google Colab, VS Code, Anaconda.
- **Deployment :** Streamlit, Flask.
- **Data Analysis :** Data Cleaning, Visualization, Model Evaluation.

PROJECTS

DIABETES PREDICTION – Machine Learning Classification Project (Completed)
ROLE : Developer **| P L A T F O RM :** Github – h ttps://github.com/Viveksh18/Diabetes-Prediction.git

- Developed a supervised machine learning model to predict diabetes in women using the Pima Indian Diabetes dataset sourced from Kaggle.
- Performed data preprocessing and exploratory data analysis using pandas, NumPy, and matplotlib.
- Trained the model using Support Vector Machine (SVM) from scikit-learn, and validated results using a train-test split approach.
- Evaluated model performance using accuracy score.
- Built an interactive web app using Streamlit for real-time predictions and user input.

Garment Worker Performance Prediction– Machine Learning Regression Project (Completed)
ROLE : Developer **| P L A T F O RM :** Github – https://github.com/Viveksh18/Garment-Worker-Productivity-Predictor.git

- Developed a machine learning regression model to predict garment worker productivity using real-world industry data.
- Performed data preprocessing including handling missing values, encoding categorical variables, and applying StandardScaler.
- Used XGBoost Regressor for model building and achieved an R^2 score of 91.54% on test data.
- Deployed the model using a Flask web app for real-time productivity prediction.

Rainfall Prediction– Machine Learning Regression Project (Ongoing)
ROLE : Developer **| P L A T F O RM :** Github – https://github.com/Viveksh18/Rainfall-Prediction.git

- Currently developing a machine learning model to predict rainfall using historical weather data.
- Performing data preprocessing including cleaning, feature selection, and handling missing values.
- Exploring the impact of features like temperature, humidity, wind speed, and atmospheric pressure.
- Evaluating various regression algorithms to identify the best-performing model for rainfall prediction.
- Aiming to build a forecasting system useful for agriculture, water management, and disaster preparedness.

KRISHI MITRA – AI-Based Agricultural Assistant (Ongoing Group Project)
ROLE : Team Member **| INSTITUTION :** Greater Noida Institute of Technology

- Collaborating on the development of an AI-powered assistant to support farmers with crop recommendations, weather predictions, and market trends.
- Contributing to data collection, model planning, and system design for natural language processing and prediction.
- Tools and technologies: Python, scikit-learn, speech recognition APIs, and regional language support.
- Goal: To create a user-friendly system that bridges the agricultural information gap in rural areas.

LANGUAGES

- Hindi (Native)
- English (Intermediate)

DECLARATION

I hereby declare that all the details furnished above are true and correct to the best of my knowledge and belief. I bear responsibility for the correctness of the above-mentioned particulars.