

Sunny Kumar

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Education

Indian Institute of Information Technology Bhagalpur

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Bachelor of Technology in Computer Science Engineering

Bhagalpur, Bihar

- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Intro to CS II (C++), Linear Algebra with Computational Applications (Python), AI/ML (Python)

Technical Skills

Languages: Python, SQL

Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn

Tools: Git, Jupyter, MySQL, Excel, Tableau

Concepts: Machine Learning, Deep Learning, NLP, Data Visualization, Artificial Intelligence

Projects

Credit Card Fraud Detection | Python, Scikit-learn, TensorFlow/Keras, Pandas, NumPy, Matplotlib, SMOTE

- Implemented a robust fraud detection system using supervised machine learning algorithms (Logistic Regression, Random Forest, XGBoost) to classify fraudulent transactions with high precision.
- Developed deep learning models using Keras (ANN and LSTM) to capture complex temporal and non-linear patterns in transactional data
- Evaluated model performance using metrics such as accuracy, precision, recall, F1-score, and ROC-AUC, achieving over 98 percent accuracy in fraud identification. %.
- Visualized data distribution, model performance, and confusion matrices using Matplotlib and Seaborn for clearer insight. Deployed the trained model in a simulated environment to test real-time fraud detection capabilities.

Multilanguage Translator app | Python, TensorFlow, Google Translate API

- Implemented a cross-platform mobile application using Flutter that supports real-time translation across multiple languages including voice and text inputs.
- Developed a hybrid architecture using Flutter for cross-platform UI, Python backend for ML inference, and Java for backend logic and API integration.
- Integrated pretrained models and APIs (e.g., Google Translate) with custom ML logic to improve fallback accuracy and handle edge cases in lesser-supported languages.
- Built custom language detection and translation models leveraging NLP techniques (e.g., sequence-to-sequence, attention mechanisms) for offline translation functionality.

Achievements

- Participated in the ReneVerse Borderless Gaming Hackathon.
- Participated in NCAT 2023 conducted by Naukri.com.
- Participated in 2k24 Rush conducted by IIIT Bhagalpur
- Participated in Conference on "Machine Learning in Health Care Sector" by the authorities of IIIT Bhagalpur.

Social Engagements

Club member : Of Samwaad , IIIT Bhagalpur

Club Member : Of Coding club -tech society of IIIT Bhagalpur

Sports-Engagements: Esports(Battle Royale, Valorant) , chess , cricket ,table-tennis, Kabaddi.

Organised: A Esports tournament of various games

Volunteered: During Enyugma(Technical fest) at IIIT Bhagalpur