Yuvraj Singh

Roll No :21BCS6343
B.TECH(Hons)
Artificial Intelligence and Machine learning
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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CSE)	Chandigarh University, Gharuan	8.02	2021-2025
Senior Secondary	CBSE Board	91.2%	2021
Secondary	CBSE Board	86.7%	2019

Experience

- **Samsung research and development** *Jan 2024 - Present*
  Prism Intern Remote
  – Working on developing an innovative personal document identification masking algorithm to accurately detect and anonymize personal documents within a diverse set of documents, ensuring compliance with privacy regulations and enhancing data security measures.

- **Wictronix** *June. 2023 - Aug. 2023*
  AIML Developer Intern Vadora, Gujrat
  – Worked on implementing YOLO V8 within an Indian road traffic management system, thereby improving the precision of vehicle number plate detection.

Projects

- **FindHome.AI**
  FindHome.AI uses AI for personalized home recommendations and financial insights in Gurgaon.
  – Empowers users with property price insights in Gurgaon through advanced AI algorithms.
  – Offers personalized recommendations based on user preferences and requirements.
  – Integrates a HomeLoan Assurance Advisor for streamlined home search and financial guidance.
  – Tools & technologies used: Python,NLTK,Tensorflow-Text,Streamlit,AWS,Scikit-Learn

- **AI Tutor**
  Created AI interview prep app with computer vision, NLP, and ML for real-time feedback, revolutionizing prep.
  – Implemented real-time emotion detection and advanced speech recognition to enhance non-verbal communication and provide personalized feedback on communication skills during interviews.
  – Utilized LLM and Langchain to create customized profiles, incorporating Google SERP API for streamlined social profile identification. Facilitated enhanced communication between candidates and interviewers by providing easy access to interviewer information beforehand.
  – **Tools & technologies used**: Python, Tensorflow,NLTK,PinceCone,Stremalit,AWS,OpenCV,Huggingface,Langchain

Research Experience

– **Impact and Performance Analysis of Various Activation Functions for Classification Problems**: Investigated the efficacy of diverse activation functions including step function, sigmoid, Tanh, soft-sign, soft-max, Relu, and its variants on deep learning neural networks using four biomedical datasets. Revealed sigmoid's proficiency in binary classification and soft-max's effectiveness in multi-class classification tasks, emphasizing the pivotal role of activation functions in neural network performance.

– **Recurrent Neural Network (RNN) Enhanced Fake News Detection System** Developed an advanced fake news classifier utilizing natural language processing and three publicly available internet datasets. Leveraging the T5 model, our approach surpassed traditional RNN and LSTM methods, achieving an accuracy rate exceeding 90 percent. This underscores the effectiveness of our strategy and the superiority of T5 in combating misinformation

Technical Skills

–**Programming:** C++,Python,SQL
–**Tools & OS:** Git, Jupyter Notebook,Google Colab, Linux, Windows
–**Libraries/Frameworks:** Pandas, Numpy, scikit-learn, Tensorflow,OpenCV,Langchain,PineCone,Ultralytics
–**Computer science fundamentals:** DBMS, Operating system, Computer networks

Achievements

– **Secured 1st Position** IIT Mandi Frosthack hackathon
– **IEEE Banglore** Published researcher in field of Deep learning
– **Microsoft** Learn student ambassador
– **3 Times** award winning blogger on hashnode