AFFAN ANSARI

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# Technical Skills

**Languages and Libraries** Python, Pandas, Numpy, Matplotlib, TensorFlow, Pytorch, OpenAI, Huggingface, Scikit-Learn

**Database and Visualization Tools**: Power BI, SQL, MySQL

**Other Skills**: Artificial Intelligence, Data Analytics, Statistics and Probability, Data Structure and Algorithms, Machine Learning, Deep Learning, NLP, Spark, LLMs, Lang chain, Lang Graph, RAG, AI Agent

# Experience

**UNIFIED MENTOR Company Dec 2024 – Feb 2025**

Data ScienceGurugram, India

* Analyzed global population trends using time series and machine learning, building a 99%-accurate predictive model with Linear Regression, projecting a 1.5% population increase by 2022
* Constructed a predictive model for laptop prices using XGBoost, achieving an R-squared score of 0.903. Feature engineering improved accuracy by 5%
* Enhanced an existing recommendation system, increasing user interaction rates by 20%.
* Orchestrated advanced predictive analytics models, significantly enhancing business decision-making efficiency by 10%.

**CODEALPHA Company Nov 2024 – Dec 2024**

Data Analyst Remote

* Conducted advertising campaigns by analyzing sales data and identifying the most cost-effective channels and audience segments**,** leading to a 15% reduction in advertising costs while maintaining sales performance**.**
* Implemented Random Forest Regressor model for car price prediction achieving 90% accuracy, enabling data-driven pricing decisions and reducing instances of overpricing by 15%, leading to improved profitability.
* Collaborated with senior analysts to refine data visualization techniques, creating user-friendly reports and enabled faster responses to market trends, resulting in 18% better outcomes.

# Projects

**Book Recommender system**

* Built a content-based movie recommendation system using Python and Flask, trained on a dataset of 1,140,000 ratings and 278,000 users. Boosted user engagement by 12% through personalized recommendations.

**Currency Converter Chabot**

* Engineered a currency converter using API and LLMs, enhancing user experience. Propelled a 15% increase in user engagement through personalized and conversational currency exchange information.

**Quora Duplicate Question Pair**

* Refined natural language processing models, improving text classification accuracy by 15%.
* Created a model for Quora that enhanced user experience by 3%by reducing the display of duplicate questions, boosting user satisfaction and improving search efficiency.

**Cat and Dog Detection**

* Developed a high-accuracy image classification model using Transfer Learning with VGG16, achieving98.86%accuracy in differentiating between cat and dog images.
* Streamlined neural network architectures for image recognition, diminishing computational overhead by 25% and increasing processing speed by 15%, leading to faster model training cycles.

**Education**

**Banaras Hindu University Jan 2021 – May 2025**

Bachelor of Technology in Dairy Technology

**Extra-Curricular/ Certificate**

* Solved Over 400+ DSA-based problems on LeetCode and GeeksforGeeks
* SQL (Intermediate) Certificate by Hacker Rank
* Fundamental of Agents By Hugging Face
* Certificate of Course Completion in Python from HackerRank
* Introduction to Machine Learning - Kaggle