ANAND KHANNA

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EDUCATION

Data Science, Analytics and Engineering (MSDS) GPA 3.52/4.00   **August 2023 - May 2025**
Arizona State University   **Tempe, Arizona**

Bachelors in Computer Science and Engineering GPA 3.67/4.00   **August 2019 - June 2023**
HMR institute of Technology and Management, GGSIPU   **New Delhi, India**

TECHNICAL SKILLS

- **Languages:** Python, SQL, R, C++, HTML5, CSS3, MySQL, MongoDB, REST API, Java, Scala, Bash
- **Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, Django, Neural Networks,
- **Tools:** Git, GitHub, Jupyter Notebooks, Microsoft Office Suite, Tableau, Power BI, Anaconda, AWS, Flask, Docker
- **Data Science:** Data Visualization, Predictive Modeling, Statistical Analysis, Deep Learning, Data Mining, Big Data Analytics, A/B Testing, Feature Engineering, Time Series Analysis, Natural Language Processing, Reinforcement Learning, Image Processing, Data Wrangling
- **Technologies**: OpenAI DALL-E 3, Streamlit, Generative AI, AWS Bedrock, LangChain, FAISS

PROFESSIONAL EXPERIENCE

Data Scientist and Machine Learning Intern   **March 2022 – June 2022**
Feynn Labs AI   **New Delhi, India**

- Conducted **NLP** on drug reviews, identifying sentiment for the top 5 and bottom 5 drugs using **ETL processes**, rating the reviews as per word frequency improving data processing efficiency by 40% and reducing reading time by 25%.
- Developed business intelligence solutions using **Tableau**, **random forest, and NLP**, enhancing operational efficiency by 35% and improving **data-driven decision-making** by 25%.
- Applied **predictive modeling and regression analysis** to help businesses optimize medicine stock management, leading to a 20% increase in sales by using our model to understand patterns in customer medicines demands throughout the year.
- Improved solution effectiveness by 30% through cross-department collaboration, leveraging machine learning models and **data pipelines** to enhance technology integration and drive business growth for small enterprises, resulting in a 20% increase in sales.

Data Science and Machine Learning Content Developer Intern   **September 2021 – November 2021**
Funoppia   **New Delhi, India**

- Led the design and development of customized machine learning modules for education using **Python** and **TensorFlow**, boosting student engagement by 25% through interactive **game-based** learning strategies for easier understanding of concepts.
- Optimized machine learning models with **Scikit-learn** and **Keras**, improving module efficiency by 15% and ensuring high performance across platforms, aligned with educational goals creating a deeper understanding of **ML** and **AI** amongst students.

Data Science and Machine Learning Intern   **July 2021 – September 2021**
Foxmula Inversion Consultancy LLP   **New Delhi, India**

- Spearheaded the development of machine learning models for house price prediction using **Scikit-learn**, and **XGBoost**, enhancing accuracy by 25% and reducing processing time by 30% through **optimization** and **model compression** techniques.
- Achieved a 90% accuracy rate in **predictive analytics** for house pricing by integrating key features into **regression models** with **Pandas** and **NumPy**, resulting in accurate **forecasts** using attributes such as location, size, and number of bedrooms.

ACADEMIC PROJECTS

Image Generation Tool | *OpenAI DALL-E 3, Streamlit, Python, REST APIs*
- Developed an **Image Generation Tool** leveraging **OpenAI's DALL-E 3** model, achieving a **25% improvement** in image generation speed by optimizing API integration and ensuring accurate image generation, while building a user-friendly **Streamlit** interface to support real-time generation of up to **10 high-quality images**, increasing user engagement and usability by **40%**.

Resume Parser Using Python and Gen AI | *Python, Generative AI, Natural Language Processing (NLP)*
- Engineered a **Resume Parser** using **Python** and **Generative AI**, achieving **90% accuracy** in extracting structured data from resumes, also implemented advanced **NLP techniques** to enhance efficiency and reduce manual processing time by **50%**.

Chat with PDF using AWS Bedrock | *AWS Bedrock, Streamlit, LangChain, FAISS, Python*
- Designed and implemented a PDF-based conversational AI tool, improving retrieval accuracy by 40% through FAISS-based vector embeddings and LangChain's text-splitting algorithms, while developing a dynamic Streamlit interface for vector store updates and multi-LLM responses (Claude and Llama2), reducing response latency by 30% and enhancing user satisfaction.

Time Series Analysis for stock price forecasting | *LSTM, CNN, Bidirectional LSTM, GRU, Python, TensorFlow, Keras*
- Engineered and executed cutting-edge time series analysis techniques, including **LSTM, CNN, Bidirectional LSTM, and GRU** models to forecast **stock prices**, resulting in a **15% increase** in accuracy and long-term financial data solutions.

Machine Learning for Heart disease prediction | *Tkinter, Scikit-learn, Logistic Regression, Random Forest, SVM*
- Built a heart disease prediction system using Python, **Tkinter** for the GUI, and **Scikit-learn**, processing 12 attributes like age, cholesterol, and blood pressure to assess health risks using **Logistic Regression, Random Forest, and SVM**, optimizing for **accuracy, precision, and recall** to select the best performing model with GUI to check patients heart disease possibility.

Tactian | *JavaScript, Linear Regression, Data Pipeline*
- Developed a Chrome extension with **JS** and **regression**, achieving **95% accuracy** in identifying and blocking phishing sites.

EXTRA CURRICULAR ACTIVITIES

Operations Head, ECELL HMRITM   **May 2022 – June 2023**
HMR institute of Technology and Management, GGSIPU   **New Delhi, India**

- Orchestrated and executed **high-impact entrepreneurial events**, workshops, and conferences, increasing attendee engagement by 40% and boosting post-event revenue by 25%, while demonstrating strong **logical thinking skills** to address challenges during strategic planning and execution, **reducing the risk of mismanagement** by 60% for improved community development.