

ANAND KHANNA

[linkedin.com/in/anandkhanna15/](https://www.linkedin.com/in/anandkhanna15/) | akhann40@asu.edu | <https://anand-1502.github.io/>

EDUCATION

Data Science, Analytics and Engineering (MSDS) GPA 3.52/4.00

Arizona State University

August 2023 - May 2025

USA

Bachelors in Computer Science and Engineering GPA 3.67/4.00

HMR institute of Technology and Management, GGSIPU

August 2019 - June 2023

India

TECHNICAL SKILLS

- **Languages:** Python, SQL, R, C++, HTML5, CSS3, MySQL, MongoDB, Java, Scala, Bash
- **Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, Django, LSTM, CNN.
- **Tools:** Git, GitHub, Jupyter Notebooks, Microsoft Office Suite, Tableau, Power BI, Anaconda, AWS, Flask, Docker, Streamlit.
- **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.
- **Technologies:** OpenAI DALL-E 3, Generative AI, AWS Bedrock, Gemini AI, LangChain, FAISS, Hugging Face

PROFESSIONAL EXPERIENCE

Data Scientist and Machine Learning Intern

March 2022 – June 2022

Feynn Labs AI

India

- Conducted **NLP** on drug reviews, applying **advanced ETL processes** to clean, transform, and analyze text data for better insights. Identified sentiment for the top 5 and bottom 5 drugs using word frequency-based scoring, significantly improving **data processing efficiency by 40%** and reducing review reading time **by 25%**
- Developed data-driven business intelligence solutions using **Tableau, Random Forest, and NLP**. Enhanced **operational efficiency by 35%** through **automated insights**, improving decision-making in pharmaceutical sales by **25%**.
- Built predictive models and regression analysis frameworks to analyze medicine stock trends. Identified seasonal demand patterns, leading to optimized inventory management and a **20% increase in sales** by reducing **stockouts and overstocking**.

Data Science and Machine Learning Content Developer Intern

September 2021 – November 2021

Funoppia

India

- Designed interactive machine learning modules using **Python and TensorFlow** for an **AI-based** education platform. Boosted student engagement by **25%** by incorporating game-based learning techniques to simplify complex **ML concepts**.
- Enhanced the performance of educational **ML models** using **Scikit-learn and Keras**, improving computational efficiency by **15%**. Ensured smooth deployment across multiple platforms while maintaining high accuracy and minimal latency.
- Aligned ML course content with industry trends, bridging theory and practice. Designed hands-on projects, enhancing student engagement and comprehension, boosting real-world AI understanding for the students by **30%**.

Data Science and Machine Learning Intern

July 2021 – September 2021

Foxmula Inversion Consultancy LLP

India

- Led the development of **ML models using Scikit-learn and XGBoost** for accurate house price prediction. Increased model accuracy by **25%** and reduced processing time by **30%** through hyperparameter tuning and model compression techniques..
- Extracted key features using **Pandas and NumPy**, refining regression models with critical attributes such as location, property size, and number of bedrooms. Achieved a **95%** prediction accuracy, enhancing real estate valuation strategies.
- Integrated automated **data pipelines** to streamline the processing of real estate datasets, reducing manual workload by **40%** and improving decision-making for property investors and real estate agencies.

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 Gemini AI](#) | *Streamlit, LangChain, FAISS, Python, Gemini*

- Created a **PDF-based conversational AI tool** with **Streamlit, LangChain, and FAISS**. It processes PDFs, splits text, and retrieves answers quickly and accurately. Users upload PDFs and ask questions, receiving detailed responses powered by advanced AI. The system improves accuracy with dynamic vector store updates and enhances user experience and ease by **40%**.

[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.

[Sentiment Analysis using VADER and RoBERTa](#) | *Python, NLP, Deep Learning, Hugging Face*

- Implemented **sentiment analysis** using **VADER (rule-based)** and **RoBERTa (deep learning)**, achieving **92% accuracy** in text sentiment detection. Optimized **data pipelines**, enhancing **scalability and performance by 30%**.

CERTIFICATIONS

Data Analysis, Machine Learning, REST API, Mastering Artificial Intelligence, Python, Build chatbots – Udemy