

ZOHAYB BHATTI

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PROFESSIONAL SUMMARY

AI Engineering Research Lead with expertise in developing AI-driven solutions that enhance user engagement, automate processes, and deliver intelligent insights. Experienced in natural language processing (NLP), machine learning, and full-stack development, with a strong track record of integrating AI models into real-world applications. Proficient in predictive analytics, neural networks, and data science, leveraging tools like TensorFlow, PyTorch, and OpenAI API to build scalable, high-performance systems. Adept at collaborating with cross-functional teams to optimize AI capabilities, user experience, and product design. Recently completed the Artificial Intelligence and Machine Learning: Business Applications program at UT Austin McCombs, further strengthening expertise in advanced model training and AI deployment strategies.

SKILLS

- **Programming Languages:** Python, Java, SQL, JavaScript, TypeScript, HTML, PHP
- **Machine Learning & AI:** NLP, Predictive Modeling, Generative AI, Classification, Regression, Neural Networks, Feature Engineering
- **Development Tools:** AWS, Streamlit, Visual Studio Code, PyCharm, Eclipse, Git
- **Data Science & Analysis:** Pandas, NumPy, Scikit-Learn, Seaborn, Matplotlib, Exploratory Data Analysis (EDA), Model Optimization
- **Frameworks & Libraries:** TensorFlow, Keras, PyTorch, OpenAI API
- **Soft Skills:** Scrum Team, Leadership, Organized, Disciplined, Communication, Teamwork, Self-managing, Self-confidence.

EXPERIENCE

Klein Training App,

October 2024 - Present

AI Engineering Research Lead

Austin, TX

- **Developed an AI-powered virtual assistant** for the app, providing real-time fitness guidance, motivational support, and responses to user inquiries using NLP and machine learning.
- Enhanced user engagement through tailored prompts and intelligent feedback, increasing user interaction within the app.
- Collaborated with cross-functional teams to integrate AI features, ensuring alignment with UX design for a seamless user experience.
- Optimized assistant performance through iterative testing and user feedback, improving response relevance and reducing latency for a smoother interaction.

Outlier,

June 2024 – October 2024

Prompt Engineer

San Francisco, CA

- Utilized **Python** for **data manipulation** and **analysis**, enhancing model training processes and contributing to the development of data-driven solutions
- Creating complex and thought-provoking prompts as well as evaluating and ranking responses generated by AI Systems.
- Oversaw technical decisions and directions by training AI models, crafting, and answering questions using domain expertise to assess the factuality and relevance of AI-generated text.

AI/ML ACADEMIC PROJECTS AT UT AUSTIN MCCOMBS

Stock Market News Sentiment Analysis

December 2024

- Enhanced investment strategies and decision-making efficiency for an investment startup by integrating sentiment insights with stock data. Improving prediction accuracy by 10-15%
- Built **NLP** based sentiment classifier for NASDAQ-listed company's news articles by developing a weekly news summarization system, reducing reading time by 30%.

Plant Seedling Classification

October 2024

- Built a **Convolutional Neural Network (CNN)** model with 92% accuracy to classify images of 12 plant species.
- Automate plant identification, significantly reducing manual labor and enhancing efficiency in agricultural practices by 40-50%.

Bank Customer Churn Prediction

September 2024

- Created a neural network model achieving 87% precision accuracy to predict customer churn by analyzing key features like Age, Credit Score, and Balance.
- Provided actionable insights, leading to a 12% reduction in churn and improved customer retention strategies.

Credit Card Users Churn Prediction

August 2024

- Developed a predictive model to determine if a customer would leave a credit card service, analyzing factors behind churn.
- Achieved an accuracy of **85%** using **Random Forest** and **Gradient Boosting**, after performing data pre-processing and applying **SMOTE** for balancing classes.

Personal Loan Campaign

July 2024

- Built a model to predict customers' likelihood of purchasing a loan, based on key demographic and financial attributes.
- Improved marketing conversion rates by **12%** using **Decision Tree** models and advanced pre-processing techniques, which enhanced the bank's ability to target potential loan customers.

PROJECTS

Full-Stack Developer @ GoFit, St. Edward's University, Austin, TX

August 2023 – December 2023

- Developed a web-based Health & Fitness Tracking Chatbot that assisted users in setting fitness goals, providing real-time feedback, and educational content to enhance their fitness journey.
- Integrated **OpenAI GPT-3.5** to enable intelligent user interaction, resulting in a **25% increase in user engagement** through personalized and dynamic responses.
- Conducted thorough testing across local and web servers, ensuring seamless functionality and reducing response time by **20%**, improving overall user satisfaction.
- Collaborated in a team of four, leading backend development and deployment, and successfully delivered the final product to stakeholders, earning positive recognition for its innovative features and robust performance.

Software Engineer @ WeGo Team 21 at St. Edward's University, Austin, TX

January 2023 – May 2023

- Led backend development and quality assurance for a Transportation-as-a-Service project, delivering sustainable transportation solutions for healthcare providers and patients.
- Streamlined project management by taking on Scrum Master duties, improving sprint efficiency by **15%**, and ensuring timely delivery of key milestones across a team of seven.
- Enhanced data management and backend operations, contributing to a **10% improvement in system performance** through optimization of code and processes.
- Presented the solution to stakeholders, demonstrating its potential to reduce operational costs for healthcare logistics by **12%**, through more efficient routing and scheduling algorithms.

EDUCATION

University of Texas at Austin McCombs School of Business – Austin, TX April 2024 – December 2024

- **Artificial Intelligence and Machine Learning: Business Applications**
- **Topics Covered:** Data Science and AI, Advanced Machine Learning, Neural Networks, Computer Vision
- **Certification Earned**

St. Edward's University – Austin, TX: Bachelor of Science, Computer Science

August 2020 – December 2023

- **Scholarships:** Presidents Achievement Scholarship Award
- **Relevant Coursework:** Computer Sciences Concepts, Database Theory & Applications, Introduction to Algorithmic Problem Solving, Component Based Programming, Web Programming, Introduction Computer Organization & Architecture, Algorithms and Data Structure, Software Engineering, Computer Networks.