

# MAHEEN ADEEB

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## SUMMARY

- Skilled **Data Scientist** and **Data Engineer** with experience in developing machine learning models, implementing ETL processes, and ensuring data quality across various projects.
- Designed scalable machine learning solutions, deploying models on cloud-based platforms (**AWS, IBM Watson**) to enable real time predictions and ensure high availability.
- Strong proficiency in programming languages such as **Python, SQL, R, and Java**, and experienced with machine learning frameworks like **Scikit-learn, TensorFlow, Keras, and PyTorch**.
- Adept at data visualization using tools like **Tableau, Matplotlib**, and **Seaborn** to present actionable insights.

## EDUCATION

### **Master of Science in Data Science**

Jan 2023 - Dec 2024

DePaul University, Chicago, IL

- Computational Methods Track
- Relevant Coursework: Machine Learning, Data Mining, Statistical Modeling, Big Data Analytics

## CERTIFICATIONS

Artificial Intelligence with Python & IBM Watson (Smart Bridge)

Salesforce Trailhead Workshop (Computer Society of India)

## SKILLS

**Programming:** Python, SQL, R, Java

**Machine Learning:** Scikit-learn, TensorFlow, Keras, PyTorch, spaCy

**Deep Learning:** CNNs, RNNs, Transfer Learning, NLP

**Data Visualization:** Tableau, Matplotlib, Seaborn, ETL Tools

**Statistical Analysis:** Hypothesis Testing, Regression, Clustering

**Tools:** Git, Jupyter Notebook, AWS, Google Cloud, Microsoft Excel (Advanced), Google colab, MatLab

**ETL & Data Engineering:** Apache Spark, Airflow, SQL, NoSQL databases

## WORK EXPERIENCE

### **Data Science Engineer, Saud Consult**

Aug 2021 - Dec 2022

Riyadh, Saudi Arabia

- Worked on building a transformer-based chatbot that made customer service interactions more natural and user-friendly, improving the overall experience for users seeking support.
- Helped train and refine the model to better understand user questions and respond in a relevant way, significantly boosting the quality of responses and increasing user satisfaction with the chatbot.

### **Junior Data Scientist/ ML Engineer, PCNA**

Nov 2020 - Aug 2021

Hyderabad, India

- Developed a predictive model using a dataset of user interactions based on viewing time and search history that increased user engagement by recommending personalized content
- Built a model that predicted a 20% increase in engagement, tested it through real-time A/B testing Resulted in a 15%
- Developed a Risk Prediction Model: Created a model to identify patients at high risk of being readmitted to the hospital. The model was 85% accurate in identifying high-risk patients

### **Intern, IBM Watson (Smart Bridge)**

May 2019 – July 2019

Hyderabad, India

Projects Rainfall Prediction

- Developed an ANN model to predict rainfall using a large weather dataset
- Created a user-friendly interface for effective interaction with the prediction system
- Achieved 90% accuracy in rainfall predictions
- Deployed the model on IBM Watson Machine learning cloud
- The system fetched live weather data from external APIs or took input directly from the user and sent it to the deployed model.

## PROJECTS

### **Title: Conversational AI Chatbot Development Using Transformer Models**

where I built a customer service chatbot by fine-tuning a GPT-2 transformer model, optimized its response quality using techniques like sampling, temperature adjustment, and repetition penalty, and tracked the training process with Weights & Biases, resulting in a more natural and user-friendly conversational experience.

### **Title: MRI Fracture Detection Using Convolutional Neural Networks**

I worked on a project using deep learning to detect fractures and edema in MRI images of ankles and knees. We used Convolutional Neural Networks (CNNs) to automate the detection process, and collaborated with a local Federal Health Care Center to gather medical data, aiming to make diagnostics faster and more accurate for healthcare professionals.