# AJITESH GOSWAMI

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# Education

# The University of Texas, Dallas

Master of Science in Data Science

Aug 2023 – Dec 2024

Dallas, Texas

# Rajasthan Technical University, India

Bachelor of Technology in Computer Science

Aug 2016 – Sep 2020

Rajasthan, India

# **Technical Skills**

Languages: Python (NumPy, Pandas, Matplotlib, PyArrow, Tensor Flow), PySpark, R, MATLAB, XML, JSON, SQLite Analytical: SQL, Power BI, Excel, Hypothesis Testing, Mongo DB, Regression, Time Series Analysis, A/B testing Machine Learning: KNN, Regression, Neural Network, Clustering, PCA, CNN, RNN, Transformers, GPT

### Relevant Coursework

• Advance Statistics

• Deep Learning

• Prescriptive Analytics

• DBMS

• Machine Learning

• Predictive Analytics

• Web Analytics

• Business Analytics

# Experience

# Principal Global Services,

Data Scientist

Nov 2020 – July 2023 *Pune. India* 

- Built a Customized Targeting Machine Learning model, optimized for incremental propensity to convert conditioned on chat with an agent, the model delivered 12% growth in conversions.
- Developed a Machine learning model for Trade surveillance to monitor market abuse regulations which avoided a potential \$5 Million fine on the company if found non-compliant in regulator's audits.
- Executed AWS data pipeline: Automated 100% data ingestion from 20+ sources, applied transformations, and organized files for seamless querying resulting in enhanced data accessibility.
- Implemented data pipelines for processing data received from multiple company-owned boutiques and generated reports on AWS Quicksight, resulting in a 180-hour reduction in manual workload.
- Engineered a master data management system to reduce manual work by 70%, reducing the risk of data duplication and error on AWS Aurora DB. Created APIs for performing CRUD operations

### Samyak Innovations

Dec 2018 - Jan 2019

Digital Marketing and Web Development Intern

Mumbai, India

- Designed and developed 2 portfolio websites and landing pages. Analyzed user engagement on the website through Google Analytics and increased it by 20%, leading to a better customer acquisition rate.
- Created Google Ads search campaigns for the Whiteboard animation product of the company. Increased user traffic on the website by 35% coming in from normal searches.

# **Projects**

#### YouTube Q&A | Python, OpenAI API's, Whisper, LangChain, Vector Database, GenAI, NLP

Apr 2024

- Built a robust Retrieval Augmented Generation system for answering questions about any YouTube video. Enabled the system to understand and interpret the content of YouTube videos accurately using OpenAI API's.
- Used Whisper to transcribe YouTube Video. Leveraged OpenAI Embeddings to convert transcribed text into multiple embedded documents and systematically stored them in a Vector Database, facilitating efficient retrieval and analysis.
- Used LangChain to build a system for fetching most relevant documents from the Vector Database and pass those documents as context to OpenAI API for answering questions asked by the user. Also added conversational memory.

## Churn Prediction for Subscription Service | Python, LightGBM, Pandas, PySpark

Mar 2024

- Developed Machine Learning Model to Predict Customer Churn for KKBOX Music Streaming Service. Performed Exploratory Data Analysis (EDA) on user subscription data to understand churn patterns.
- Identified key factors influencing churn and provided data-driven recommendations to the KKBOX business team for customer retention strategies for different segments of customers.
- Built a LightGBM machine learning model to predict user churn with an F1-score of 0.92, exceeding industry benchmarks.

## **GPT - Shakespheare** | Python, PyTorch, Pandas, Transformer model

Dec 2023

- Built neural networks from scratch in Python to understand backpropagation, language modeling, and deep learning fundamentals like Batch Normalization and hyperparameter tuning.
- Implemented deep learning concepts in various architectures using PyTorch for efficient tensor manipulation.
- Trained language models to grasp core deep learning algorithms and their application in language processing. Implemented a GPT-like model based on the "Attention is All You Need" paper to generate Shakespeare text