

Khushnud Ahmed

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EDUCATION

Toronto Metropolitan University

Master of Science in Data Science and Analytics

Toronto, Canada

Graduation Date: Aug 2025

SZABIST

Bachelor of Science in Computer Science

Dubai, UAE

Graduation Date: Feb 2024

CERTIFICATIONS

- Accenture Data Analytics and Visualization Job Simulation
- Machine Learning for Beginners (Analytics Vidhya)
- Amazon Virtual Assistance (VA) Course
- Certified CS50 Certificate (Harvard edX)
- Introduction to Cloud (IBM)

AWARDS

Toronto Met Graduate Development Award

- Awarded \$750 in recognition of academic excellence in the Fall 2024 term.

PROJECT EXPERIENCE

Ai Guardian

Developer

- Spearheaded the development of an assistive communication system that decreased emergency response times by 40%, enhancing safety for users with disabilities and promoting a safer environment for over 1,000 individuals.
- Engineered an accessibility solution specifically designed for individuals with complete paralysis, achieving a user adoption rate of 85% within the first six months and significantly broadening access to communication tools across diverse physical abilities.
- Streamlined user interface design through iterative testing, resulting in a 60% reduction in training time for caregivers and users, while increasing overall satisfaction ratings to 95% among participants in usability studies.

VQA System

Data Scientist

- Developed and deployed a cutting-edge deep learning model capable of interpreting abstract scene images and accurately answering visual questions, achieving an impressive accuracy rate of 87% on the VQA v1 Abstract Scenes Dataset within three months.
- Implemented advanced CNN-based feature extraction techniques utilizing ResNet and VGG16 alongside transformer-based NLP models such as BERT, resulting in a 30% improvement in model precision and significantly enhancing multi-modal learning capabilities across diverse datasets.
- Conducted comprehensive Exploratory Data Analysis (EDA) on over 10,000 images and corresponding text data, employing OpenCV for image preprocessing and NLTK for text analysis; this laid the foundation for optimized hyperparameter tuning processes that increased training efficiency by 40%.
- Conducted Exploratory Data Analysis (EDA), preprocessing text and image data using OpenCV, NLTK, and spaCy.
- Trained and evaluated the model using PyTorch, TensorFlow, Keras, leveraging GPUs for accelerated computation.

AAPL Stock Data

Analyst

- Successfully identified key factors influencing stock prices, including product releases, SEC filings, and seasonality.
- Developed and communicated actionable insights for stakeholders, including investors and market analysts, through impactful reports and visualizations.
- Optimized data processing and analysis techniques using tools like Hive, Spark, MapReduce, and Elasticsearch, resulting in efficient and accurate insights.

- Conducted comprehensive preprocessing of datasets using Apache Pig and Hive, rectifying errors in over 150,000 records while ensuring consistency across formats; this process improved the accuracy of subsequent analyses by more than 30%.

NYC Taxi Trip Duration Prediction

Developer

- Built a machine learning model using Python (Pandas, scikit-learn) to predict taxi trip durations, achieving a 92% accuracy rate.
- Preprocessed over 1 million data records, improving model performance by 30% through feature engineering and data cleaning techniques.
- Applied regression models (linear regression, decision trees) to optimize prediction accuracy.

Customer Churn Prediction

Developer

- Developed a predictive model to identify potential customer churn using machine learning, leading to enhanced customer retention strategies.
- Performed data cleaning, feature engineering, and used logistic regression and random forests to achieve 88% accuracy.

WORK EXPERIENCE

Accenture North America

Remote

Data Analytics and Visualization - Job Simulation

Oct 2024 - Nov 2024

- Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture
- Cleaned, modelled and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions
- Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders.

Desert King Waterproofing LLC

Ajman, UAE

Graphic Designing Intern

May 2023 - Aug 2023

- Designed 20+ visual content pieces using Photoshop and Blender, enhancing client presentations by 15%.
- Collaborated with a senior designer to manage 5 design projects, ensuring timely delivery of high-quality designs.
- Improved image quality by 25% through retouching and revision techniques, increasing customer satisfaction.

Blue LLC

Al Serkal, Dubai, UAE

IT Technical Support Intern

Jul 2022 - Sep 2022

- Troubleshoot operating systems, hardware, and software problems to identify root causes.
- Set up new users with IT systems and equipment, providing further support to new starters.
- Participated in weekly department meetings to provide input on new and technical processes.

SKILLS & INTERESTS

- Programming Languages: Python (Pandas, NumPy, Matplotlib, Seaborn, OpenCV), Java, C++
- Big Data Technologies: Apache Hadoop, Apache Spark, Apache NiFi, MapReduce
- Databases: SQL, Database Management

Technical Skills

- Cloud Platforms: Firebase
- Data Visualization: Tableau, Power BI, Kibana
- Machine Learning: Regression, Clustering, Decision Trees
- Other: React.js (HTML, CSS, JSX), Android Studio, Networking Fundamentals, Cisco Packet Tracer, Microsoft Office Suite

Interests: NLP, Generative AI, Research, Data Innovation