

Md Ishtiaq Ahmed

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SKILLS

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|-------------------------------------|--|
| Programming Language | Python, SQL, PySpark, HTML, and CSS. Working knowledge of JavaScript, Java |
| Database & Analytics | MySQL, Postgres, MongoDB, Apache Hadoop, Redis, Azure Databricks, Spark, ETL |
| Frameworks | Django, Bootstrap |
| Cloud Platform | Amazon Web Services (EC2, S3, RDS, EMR), Google Cloud |
| EDA & Data Visualization | Tableau, Power BI, Numpy, Pandas, Matplotlib |
| Machine Learning | TensorFlow, PyTorch, YOLO |
| Version Control | Git |
| Video Annotation | CVAT, Roboflow |

PROFESSIONAL EXPERIENCE

Web Developer

New Mexico Water Resources Research Institute, Las Cruces, New Mexico | Feb 2025 – Till now

- Developed websites using Django for the backend and HTML, CSS, Bootstrap, and JavaScript for the frontend.
- Created interactive dashboards using Chart.js to display real-time sensor data.
- Designed and managed a MySQL database on AWS RDS, implementing an ETL pipeline to automate sensor data collection, processing, and storage.

Graduate Research Assistant

New Mexico State University, Las Cruces, New Mexico | Aug 2024 – Dec 2024

- Leveraging deep learning models such as YOLOv8 with OpenCV to analyze video data for cattle behavior detection.
- Utilizing rupture and BFAST to detect vegetation (NDVI) breakpoint. Finding correlation with external variables using Bi-LSTM, Granger causality and hypothesis testing.

Graduate Assistant, Aggie Welcome and Orientation

New Mexico State University, Las Cruces, New Mexico | Oct 2022 – Aug 2024

- Planned and executed family events and communication throughout the year.
- Organized and conducted orientations for families of incoming students.

Data Analyst, Analytics Center of Excellence

Robi Axiata Limited, Bangladesh | Jan 2020 – Jul 2022

- Created and maintained data mart using SQL, HiveSQL and python in Oracle Exadata and Hadoop platform. More than 20 targeted product campaigns ran based on the data marts each week.
- Developed and implemented SQL stored procedures to automate daily updates of summary tables by aggregating data from multiple source tables.

- Analyzed large-scale customer data such as voice and data usage pattern, application usage behavior, customer churn and perceived network quality to generate actionable insights and recommend targeted product resulted in around \$500,000 in incremental revenue.
- Created and maintained interactive, automated dashboards and reports using Tableau and Power BI, extracting data directly from database. This enabled faster decision-making, cross-functional team collaboration, fault monitoring and automating reporting processes, which saved over 120 working hours per month.
- Designed and implemented appropriate data architecture and visual analytics to facilitate network and business requirements. Improved process efficiency and saved \$200,000 by integrating external digital network analysis tools with the internal data warehouse.
- Developed automated subscriber application usage profiling using Python and SQL, supporting effective marketing campaigns and saving \$50,000 in development costs.
- Collaborated with external analytics solution providers including SAS, IBM, Ericsson, Infovista & Infogain to trial new solutions in Robi like the churn prevention model, offer personalization and predictive network experience.

Radio Network Design & Optimization Engineer, Technology

Robi Axiata Limited, Bangladesh | Oct 2014 – Dec 2019

- Maintained and improved radio network quality of 2G, 3G & 4G networks.
- Identified network fault and performance degradation by analyzing trends using MS Excel and SQL.
- 200+ customer complaints handling per month.

RF Engineer, Optimization

ONS Telecom Bangladesh Ltd | Aug 2012 – Sep 2014

- Ensured 3G site acceptance and cluster acceptance through Cluster Optimization and KPI improvement.

System Engineer, Service Operation Center

Grameenphone Ltd, Bangladesh | Oct 2011 – Jul 2012

- Monitored radio network performance, network fault identification, and troubleshooting

EDUCATION

New Mexico State University, Las Cruces, NM, USA

Master's of Science in Computer Science, December 2024, GPA 3.95

Master's Project

Using deep learning model to identify behavior of free roaming cattle in open ranch by creating a training dataset of cattle behavior by doing video annotations and using the dataset to train deep learning model.

Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh

Bachelor of Science in Electronics & Telecommunication Engineering, July 2011, GPA 3.55

AWARDS and HONORS

Outstanding Graduate Student Leader 2024 of NODA Region III (Association for orientation, transition, and retention in higher education)

Certified Scrum Master (May 2020 – May 2022)

Robi Guiding Principal Champion in the category "Collaborate to Deliver" in 2020 for developing real-time health risk alerts in Covid-19 risk zone.

WORK AUTHORIZATION

Authorized to work for any employer in the U.S.A under OPT