

Abeer Mathur

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EDUCATION

Pennsylvania State University

Bachelor's in Computational Data Science, Minor: Mathematics, Statistics **GPA:** 3.4

University Park, PA

Aug. 2020 – May 2024

EXPERIENCE

Data Science Intern

Constellation Energy

Jun 2023 – Aug 2023

Remote, PA

- Redesigned and optimized an Oracle SQL database for a customer-centric application serving 200,000 users by utilizing Agile design practices, resulting in a 44% reduction in database size.
- Identified performance and run-time inefficiencies in API endpoints by developing KQL queries and building an end-to-end performance monitoring PowerBI dashboard, boosting application performance.
- Designed and implemented ETL pipelines in Azure Data Factory to automate data ingestion, transformation, and loading, resulting in the transfer of 128 entities.

Data Scientist (Intel-GM Autonomous Chevy Bolt Project)

Penn State Advanced Vehicles Team

Jan 2023 – Aug 2023

State College, PA

- Led Radar integration in a level 4 autonomous Chevy Bolt for a project partnered with Intel and General Motors.
- Implemented a Python script in Docker to streamline the data collection and calibration processes for LiDAR and Radar systems, resulting in accurate live outputs.
- Enabled seamless integration with “YOLO” machine learning model to detect pedestrians and objects from up to 175m.

Assistant Data Scientist (Patient Dashboard Project)

Department of Human Development and Family Studies

Oct 2021 – May 2022

State College, PA

- Developed a data pipeline for Geo-location data through SQL, R and built data visualizations like digital line graphs in Tableau to identify behavioral patterns in the study group.

Lead Data Scientist (KCF Industry 4.0 Project)

Engineering Leadership Society Volunteer

Mar 2022- Apr 2022

State College, PA

- Collaborated with KCF Tech to collect survey data from major automotive companies regarding Industry 4.0 Practices. and developed visualizations on the survey data using Tableau and presented our findings to company executives.

PROJECTS

Multivariate Property Sale Price Forecasting | Python, TensorFlow, sklearn, pandas, seaborn

Jun 2020 - Jul 2021

- Developed a Machine learning pipeline to identify key features contributing to property tax value and performed time-series analysis to predict sale price.

Artificial Intelligence Tic Tac Toe Game | Java, JOptionpane

Jun 2021 – Jul 2021

- Integrated a GUI that supports a two-player system to apply the “minmax” algorithm and build a two-player AI(Artificial Intelligence) Tic-Tac-Toe game in Java.

LEADERSHIP

Statistics Club | Vice President

Jan 2023 - Present

- Spearheaded club activities, curated social events, and secured sponsors and companies to facilitate enriching talks, trips, and activities for 20+ club members

Abba Java Coffee | Volunteer Barista

Aug 2022 – Present

- Served coffee and helped distribute food, clothing, and other goods to students and those in need in the State College community.

50/50 Raffle | Volunteer Sales associate

Nov 2022

- Sold \$3090 in raffle ticket sales and ranked 1st out of 25 sales representatives in 3 hours through my excellent communication and negotiation skills.

TECHNICAL SKILLS

Languages: Python, R,Java, SQL, JavaScript, HTML/CSS, Scala

Frameworks: Android Studio, Figma, Azure, Hadoop, Spark, Tableau, PowerBI, Azure DevOps

Developer Tools: Git, Docker, Linux, Azure, Android Studio, VS Code

Libraries: numpy, sklearn, pandas, matplotlib, XGBoost, dplyr, tidyverse, ggplot2, pyplot, seaborn

Techniques: Agile, ETL, Machine learning pipeline, Statistical Modeling, Machine Learning, Artificial Intelligence, Data Visualizations, Data Analysis, Data Cleaning, Object-Oriented Programming, CI/CD, DevOps