

🛮 (571)-236-6177 | 🗷 arshiyaxansari@gmail.com | 🌴 arshiyaansari.github.io | 🖸 arshiyaansari | 🛅 arshiya-ansari

EDUCATION

University of Virginia Charlottesville, VA

MASTER'S IN DATA SCIENCE Jun 2020 - May 2021

Cumulative MS GPA: 3.85

University of Virginia Charlottesville, VA

BACHELOR'S IN COMPUTER SCIENCE, BACHELOR'S IN STATISTICS Aug 2016 - May 2020

Cumulative BA GPA: 3.83

FXPERIENCE

Apple Sunnyvale, CA

Jul 2021 - NOW MACHINE LEARNING ENGINEER

· Owner of the ground truth data set generation pipeline (using PySpark, Kubeflow, and PrestoSQL) that provides versioned and validated data sets to the entire autonomous stack for machine learning model training and evaluation

- · Collaborated on a daily basis with stakeholders and consumers on new data and ETL features, attributes, schemas, and data set designs
- · Designed and developed infrastructure for efficient data set creation with new extensive validation techniques to aid data quality initiatives. Reduced production defects by 80%, decreased time for overall data set generation by 4x.
- · Led the effort to integrate a new data lake API into existing pipelines to increase accessibility to data from every point of the ETL process. Introduction of the data lake increased data lineage tracking by 100% and reduced data quality issues by 50%.
- · Created executive dashboards hosted in Tableau to monitor volume and quality of data starting at the point of data collection from external and internal vendors to any point of data processing in the ETL pipeline
- · Working with Flask and PostgreSQL to host a data corrections API for stakeholders to self-report data quality issues

Apple Sunnyvale, CA

AI/ML INTERN: AUTONOMOUS SYSTEMS

Jun 2020 - Sept 2020 • Introduced new functionalities to improve performance to existing ETL processes and SQL queries for ground truth data set generation

- Migrated data set generation from a heavy, deeply-nested data schema to a light-weight alternative
- · Developed infrastructure for scalable and maintainable data set generation using Presto SQL, Apache Spark, and Kubeflow
- · Added new features to the ground truth data sets for more robust and efficient machine learning model training and evaluation

Capital One McLean, VA

SOFTWARE ENGINEERING INTERN

Jun 2019 - Aug 2019

- Implemented a live time-series forecasting algorithm utilizing deep neural networks for Capital One's internal data ETL engine
- · Constructed an anomaly detection program for the performance metrics of the internal ETL engine via an automated Python script
- Established an anomaly alert functionality to indicate real-time performance issues to the ETL engine software development team

CGI Federal Fairfax, VA

TECHNICAL CONSULTANT INTERN

Jun 2018 - Aug 2018

- Corresponded with clients at the Center for Medicare and Medicaid Services for data analysis requests on healthcare insurance information
- Identified and reconciled 20 different bugs in the database by querying and analyzing data with Oracle SQL Developer
- · Devised 5 new report templates in Cognos using Oracle SQL Developer to aid in easier delivery of data to clients

PROJECTS.

Capstone Research: Scale-Invariant Factors for Brain-Computer Interfaces

Charlottesville, VA

MSDS CANDIDATE/RESEARCHER

Aug 2020 - May 2021

• Developed a specialized LSTM network that models after the scale-invariant patterns of the brain's time cells and quantify how well it can identify actions from EEG data. The goal is to improve the prediction accuracy of current BCI (Brain-Computer Interface) technology on EEG data by implementing neural features such as time cells as artificial agents.

COURSES_

Computer Science Software Development, Machine Learning, Databases, Cloud Computing, Artificial Intelligence, Big Data, Algorithms Statistics Data Science, A/B Testing, Regressional Data Analysis, Probability, Linear Algebra, Bayesian Statistics, Data Visualization

SKILLS_

Programming Python, Java, Presto SQL, PostgreSQL, Apache Spark, Kubeflow, AWS, R, SAS, C++, Assembly, Kubernetes

Analytic Tools Tableau, Mathematica, MatLab, Cognos, Microsoft Excel, LaTex

Languages English, Hindi, Urdu, Telugu

Photography, public speaking, mentoring, writing, film production General

Activities Women in Computing Sciences, Society of Women Engineers, Hack Cville (Program Coordinator), Madison Volunteer House

AUGUST 28, 2022 ARSHIYA ANSARI · RÉSUMÉ