Hashir Ahmed

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EDUCATION

Software Engineering, University of Calgary   2018 – 2023 | Calgary, AB, Canada
- *Bachelor of Science in Software Engineering with Distinction.*

SKILLS

Programming — Python, Java, C/C++, C#, HTML/CSS, JavaScript, PHP, REST APIs, MySQL, SQL, NoSQL (MongoDB)

Technologies — React, Node, Express, OpenGL, Spring, JUnit, MongoDB, Docker, Azure Cloud (VMs, Data lakes, AML), DS/ML (Scikit-learn, Pandas, NumPy, XGBoost, Keras, PyTorch, Spark, Databricks)

PROFESSIONAL EXPERIENCE

Associate ML Software Engineer, AltaML | Invent Team   May 2023 – Sep 2023
- Designed, built, and optimized an **ETL pipeline** in **Python** to automate the ongoing Machine Learning (ML) use case for a large energy company, forecasting churn rates of over **15 million customers** and helping increase the yearly revenue by up to **5 million dollars**.
- Constructed **ML models** (**Logistic Regression, Random Forest, Naive Bayes classifier,** and more) achieving strong results with ~**83% model accuracy**.
- Crafted **SQL scripts** to generate client data resulting in a **20%** improvement in data integration efficiency and facilitated smooth and efficient data integration.
- Collaborated in developing an innovative copilot tool using **Prompt Engineering** with cutting-edge **LLM** technology, the **text-DaVinci-003** model from OpenAI, to enhance non-technical employees' interactions with **Airtable**.
- Leveraged **Azure Cloud** Machine Learning services to develop, manage, and test the **ETL pipeline**, and perform warehousing and versioning for 3 datasets with **600,000** samples each**.**

Software Engineer in Test Intern, Mobility Quotient | Analytics Team   May 2021 – May 2022
- **Leveraged the XXAMP tech stack** for **web scraping** on client e-commerce sites using **PHP and Guzzle**, displaying data on Sokolocal for 100+ local businesses.
- Engineered data integration and developed **robust test suites** for 10+ projects, ensuring web page functionality using **Selenium**.
- Conducted **data analysis** on targeted websites, examining **encoded data structures** to optimize scraping processes.
- Utilized **XML sitemaps** to navigate and scrape **500+** web pages, ensuring comprehensive data acquisition.

PROJECTS

ScholarSpace, Online Learning Social Media Platform   2024 – present
- Designed an innovative online learning platform with social media features using the **MERN stack (MongoDB, Express.js, React.js, Node.js)** and **Apollo GraphQL**. Employed **MongoDB** with **Mongoose ORM** for efficient data management.
- Implemented secure authentication systems, including **JWT** and **Google OAuth** integration for seamless user registration and login.
- Created dynamic **user profiles** for managing posts and personal information, with **advanced search functionality** for finding posts by keywords, categories, or topics.
- Enhanced **social interaction features**, enabling users to like, comment, and share posts.
- Utilized **Git** for version control and **ESLint/Prettier** for code linting and formatting, ensuring high code quality.

ML Classification on Medical dataset, Big Data Analytics Project   Nov 2022 – Dec 2022
- Developed 7 **classification machine learning models** to predict the need for diabetes medication to improve patient care and treatment outcomes
- **Orchestrated ML workflows**, including **data processing**, exploratory data analysis, and model training, utilizing **Databricks, Hadoop,** and **Apache Spark** to process large medical datasets efficiently
- Applied hyperparameter tuning techniques to optimize model performance, resulting in ~**95% accuracy** and ~**97% F1** scores.