

# Mudassir Mayet — <https://www.linkedin.com/in/mud/>

714-747-4208 — Los Angeles, CA — Remote — US Citizen — <https://mmayet.github.io/>

Thoughtful engineer who loves to bring data to life through clarity and storytelling.

## **Professional Experience**

**Avanade (Accenture + Microsoft) | Culver City, CA**

**11/2019 - Current**

**Senior/Lead Data Engineer, Data Scientist, and Senior Consultant**

**Project II:** Building an alerting engine to take raw data to create actionable alerts for at-risk sites during a 5G Rollout.

- Owning dozens of epics from initial design to implementation to production with agile delivery
- Leading a pod of 3 engineers, conducting code reviews, design, data model, and architecture sessions
- Writing and updating documentation of all processes including diagrams, examples, and human-readable summaries
- Developing ETL and pipelines using PySpark to process 1B+ rows from raw data to alerting and AI/ML layers
- Running automated daily checks, updates, tests, and summary reports on processed data; over 33 unique jobs
- Improving trigger engine run time performance by 80% with real data; process and run nightly and on-demand
- Designing and implementing analytics engine for user configurable alerts; 12+ alert types with 100s of customizations
- Writing multiple DevOps scripts to deploy code and libraries/packages; setting up and managing VMs
- Working directly with stakeholders to address needs, use-cases, scope, & feasibility through presentations & demos
- Delivering presentations to senior directors and executives highlighting the success of the alerting tool
- Serving as Subject Matter and Technical Expert; defining data sources, source of truth, business logic, point of contact
- Utilizing Jupyter Notebooks for EDA, prototyping, rapid development, testing, and data QA/QC
- Writing robust code with classes, reusable functions, test cases, and version control
- Writing SQL for EDA, finding data inconsistencies, getting alert metrics and usage reports/summaries/statistics
- Preparing platform to evolve from a rules-based platform to AI/ML Data Science based platform
- Using Spark (distributed compute engine), SQL, SparkSQL, Pandas, NumPy, Linux, Bash, Tableau reports
  - Technologies: Python, Spark, PySpark, JSON, Jupyter Notebooks, Hive, Postgres DB, Linux, Tableau, Oracle

**Project I:** Built multiple Power BI Dashboards to show daily trades, valuations, & portfolio comparisons of a \$1.5T fund.

- Wrote several ETL and SSIS packages to ingest new data; validated and QAed new data sources
- Implemented and updated SQL stored procedures to manage and join new data into existing data
- Created SQL views to be used within Power BI reports to drastically decrease load times
- Built and enhanced numerous Power BI reports, updated data models, and worked with business users on expectations
- Demoed initial work with Power Apps/Power Automate; architected POC of Power Apps/Automate integration
  - Technologies: Power BI, Power Apps, SQL, SQL Server, SSMS, SSIS

**Affine Analytics | Santa Monica, CA**

**6/2019 - 11/2019**

**Data Engineer**

As a consultant at a billion-dollar gaming firm, built data infrastructure and reporting for Player Science & Analytics.

- Architected table design for new mobile game with 10 million + daily active users
- Implemented tables within Databricks and AWS S3 buckets using Apache Spark, Delta Tables, and ZORDER
- Wrote, optimized, tested, and validated Spark SQL queries and SPs for daily ETL jobs in Databricks
- Packaged ETL jobs within Scala so Databricks can run JARs, thereby improving efficiency and reducing cluster uptime
- Planned migration of Airflow jobs to Databricks to test tradeoffs
- Use of data science notebooks (Databricks, Qubole, Jupyter) and modern big-data storage technologies (Delta)
  - Technologies: Databricks, Scala, Spark, Spark SQL, Tableau, Hive, Redshift, AWS, Tableau, Data Lakes

**Tarteel.io | Open Source**

**11/2018 - 6/2019**

**Evangelist**

Live Arabic speech to text with follow along, and phonetic correction. Built with Python, ReactJS, and Keras in AWS.

- Increased users by speaking to them, building trust, and utilizing customer-obsessed, data-driven decision making

**General Assembly | Santa Monica, CA**

**6/2018 - 11/2018**

**Data Science and Data Engineering Immersive**

- Arabic NLP, Topic Modeling, Recommender: [Evolution of Islamic Law & Text Recommendations](#)
- Mined 500k pages, created legal corpus, TF-IDF with Scikit Learn, NLP with NLTK, Recommender with Gensim
- Used Statistics, Bayesian and Frequentist approaches, NumPy, Tensorflow, Keras, SparkML, Pandas, Scikit-Learn

- Data Science AI/ML projects: [NLP & Text Classification w/ Reddit](#), [Digit Recognition w/ CNNs in Keras \(Kaggle\)](#)

- Technologies: Apache Spark, SparkML, Pandas, Scikit-Learn, Keras/Tensorflow, Python, Scala, Spark SQL, AWS

**IBM | Costa Mesa, CA**

**6/2016 - 6/2018**

**Software Engineer**

Built server and web-based tool to collect, manage, configure, and maintain network resources.

- Responded to 1000's of users' support tickets to quickly fix all frontend and backend bugs in the tool

- Technologies: Java, Javascript, SQL, JSON, UNIX Shell, VS Code, Putty, PostgreSQL, Oracle, Hadoop, MapReduce

**UCI | Irvine, CA**

**9/2015 - 3/2016**

**Software Engineer Intern, Team Lead**

Reading suggestions made by UCI faculty. Professors can login, search and recommend books for students to read.

- Technologies: Javascript, PHP, MySQL, Github, HTML, CSS, API's, WordPress, JSON, CSV

**IBM | Costa Mesa, CA**

**5/2015 - 10/2015**

**Software Engineer Intern**

Assisted with creating UI for version control software to manage code edits, deployment, tickets, and work items.

- Technologies: Java, J2EE, Eclipse, Javascript, SQL, HTML, CSS, d3.js, dojo.js, jQuery, SASS

## **Education**

- University of California, Irvine — March 2016
  - o Bachelor of Science, Informatics and Software Engineering
- General Assembly — November 2018
  - o Certificate, Data Science and Machine Learning
- Institute of Knowledge — June 2019
  - o Master of Arts, Arabic