

Akansha Mohan

<https://www.linkedin.com/in/akansha-mohan-390621b7>

Email : akansha.ash@gmail.com

Mobile : +1-214-699-8160

EDUCATION

- **The University of Texas at Arlington** Arlington, TX
Master of Science in Computer Science *Jan 2022 – Dec 2023*
- **Manipal University Jaipur** Jaipur, India
Bachelor of Technology in Computer Science *Aug 2016 – Aug 2020*

EXPERIENCE

- **The University of Texas at Arlington** Arlington, Texas
Associate Analyst *Feb 2024 - Current*
 - **Seedat Application Development with React, Node.js, Git Version Control and REST API:**
 - Participated in the backend development of the Seedat platform using Node.js and Express.
 - Implemented JWT (JSON Web Tokens) to safeguard the user authentication process, successfully managing access for over 20 faculty members across various educational institutions.
 - Designed and maintained 5 plus RESTful API endpoints, enhancing user experience.
 - Created an intuitive classroom dashboard that provides an overview of class activities and upcoming assignments.
- **Amazon(AWS)** Seattle, WA
Software Engineer Intern *May 2023 - Aug 2023*
 - **Enabling Backtesting Feature with Java, CI/CD, REST API, Git Version Control, Mockito and Junit:**
 - Initiated the development of a user-friendly feature empowering clients to initiate service simulations through historical scenarios from the past two to three weeks, enhancing decision-making capabilities.
 - Collaborated with 2 teams to model and integrate a new parameter, into the service request, facilitating historical scenario selection.
 - Built a new API, which retrieved scenario IDs for a specified date, enabling the selection of the latest scenario from that date(in the range of 2-3 weeks).
 - Orchestrated the implementation of a comprehensive CI/CD approach, leveraging automation tools to achieve 100% reliability and consistency of the backtesting feature, with a specific emphasis on testing the REST API endpoints.
 - Created Unit and Integration test cases using frameworks like Mockito and Junit to ensure 100% code coverage.
- **Tata Consultancy Services** Delhi, India
Data Analyst *Aug 2020 - Nov 2021*
 - **Automation Pipeline Creation - Python, SQL, REST API, Data Refinery, QA:**
 - Established a robust reporting pipeline for a digital retail client, integrating multiple channels (Social, Display, Search), improving data integration.
 - Automated Excel reporting for a brand across multiple channels, reducing manual reporting time.
 - Developed and implemented a clear, structured reporting framework, enhancing readability and actionable insights.
 - Designed a comprehensive QA process using Python and SQL, querying incremental data from platforms and securely storing it in SQL server tables.
 - Involved in engineering efforts by setting up multiple REST APIs through the Data Refinery of platforms (Facebook, Pinterest, Snapchat, DV360), and efficiently storing incremental data in Hive tables.
- **Reliance Industries Ltd** Mumbai, India
Data Analyst Intern *Jun 2019 - Jul 2019*
 - **Optimization of Fuel Sales - Python:**
 - Collaborated with a cross-functional team and optimized big data ETL workflows using Hadoop, Zeppelin, and Hive, improving the accuracy of fuel sales analytics.
 - Engineered a robust data visualization tool using Python, which provided actionable insights on fuel sales trends. This enabled the identification of low sales periods and the implementation of targeted incentives, resulting in a 2.79% increase in sales.

PROJECTS

- **Machine Learning:** Executed algorithms and ensemble techniques like Naive Bayes, SVM, K Nearest Neighbour, Linear Regression, Locally Weighted Linear Regression, K-Means Clustering, Bagging routine and Ada-boost routine from scratch resulting in a best prediction accuracy of 92%.
- **Deep Learning:** Employed Recurrent Neural Networks, particularly LSTM units, to classify Reddit comments with an accuracy of 87%, surpassing baseline models by 68%. Applied TensorFlow Keras library to implement CNN and ANN algorithms for classifying people's faces using the Facial Expression dataset from Kaggle.

PROGRAMMING SKILLS

- **Languages:** Java, Python, C#, PHP
- **Cloud and DevOps:** Cloud and DevOps: AWS, Git, CI/CD, Jenkins
- **Frameworks and Tools:** Mockito, JUnit, REST API
- **Other Technologies:** Swift, Linux, MongoDB, AWS DynamoDB, HTML, CSS, Ajax, Hadoop, Zeppelin