

# Mushraf Ahmed

DATA ANALYST – Python, SQL, Data Analysis (Power BI)

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## SKILLS

- **Programming Languages:** Python, Java, C++, C for algorithm design, data manipulation, automation logic.
- **Web Development Tools:** HTML5, CSS3, JavaScript, ReactJS for dashboard interfaces and visual analytics.
- **Data Analytics Platforms:** Power BI, Tableau, Looker, MS Excel for dashboards, reports, KPIs, drill-downs.
- **Databases & Querying:** MySQL, MS SQL Server for data extraction, transformation, joins, subquery logic.
- **Cloud & Analytics:** Pandas, Numpy, Matplotlib, GitHub, AWS, Azure, Jira, Confluence for data workflows.

## WORK EXPERIENCE

**Associate Software Engineer**

**September 2021 – November 2022**

*Accenture*

*India*

- Completed training on Java, OOP, data structures, and algorithms, building the foundation for writing optimized code and improving logical design performance by 40% across structured development exercises and code reviews.
- Leverage Spring Boot framework to design scalable backend modules & integrated JDBC for data persistence, increasing DB interaction efficiency by 35% while maintaining transaction integrity and reducing query latency.
- Developed and debugged RESTful APIs for banking applications during client project with Standard Chartered, reducing backend response time by 28% via optimized service logic and modular Spring-based implementations.
- Implemented Robotic Process Automation using UiPath, automating four high-frequency business processes and reducing manual intervention by 60%, while ensuring rule-based accuracy in repetitive transactional workflows.
- Facilitated with daily stand-ups and Agile sprints, coordinating backend workflows with version control using Git, which improved sprint velocity by 20% and aligned deliverables with integration and deployment cycles.

## PROJECT EXPERIENCE

**Hand Support System for Motor-Impaired Users**

*Data Preprocessing & Model Building*

[GitHub Repo](#)

- Directed data workflow and guided sprint cycles; hosted weekly team sync-ups, tracked progress, and documented version changes, improving milestone delivery by 30% across training, deployment, and validation phases.
- Scraped 350+ gesture images and 45 labeled action videos using Selenium and MediaPipe Holistic; stored preprocessed datasets on Amazon S3, reducing local data load by 60% and enhancing model training accessibility.
- Leveraged OpenCV grayscale conversion & adaptive thresholding to clean gesture images; boosted noise-free image detection & cut preprocessing time by 35%, improving model training consistency & classification accuracy.
- Engineered TensorFlow model for finger spelling recognition and LSTM neural network for action recognition; achieved 89% accuracy and accelerated gesture classification for ASL by minimizing inference time by 28%.
- Conducted 15+ syncs, managed Git commits, enhanced sprint flow by 22%, and eliminated testing bottlenecks.

**Geospatial Sentiment Analysis for Renewable Energy**

*Data Preprocessing & Model Building*

[GitHub Repo](#)

- Developed model pipeline using Twitter data linked to UNCCC 2023; mapped geotagged data for trend analysis, improving temporal sentiment resolution and grouped public opinion by region across 10 global energy topics.
- Queried 25,000 tweets using Snsrape with keyword filtering and stored in SQLite database; pipeline scalability enabled monthly data refresh, enhancing sentiment granularity and source reproducibility for policy analysis.
- Executed NLP cleaning process with tokenization, lemmatization, & POS-tagged annotation; removed 95% noise from raw text, improving model quality & reducing overfitting during SVM & Naive Bayes classifier training.
- Created an interactive dashboard using Plotly and Dash for visualizing public sentiment; enabled live filtering by location & keyword, which improved stakeholder insight into renewable energy perception trends by 40%.
- Trained logistic, SVM, and Naive Bayes models with 91.45%, 90.53%, and 72.8% accuracy for sentiment polarity.

## EDUCATION

**Ontario College Graduate Certificate in AI and Data Science**

**January 2023 – August 2024**

*Loyalist College, Toronto*

**Bachelor of Engineering in Information Science and Engineering**

**August 2017 – August 2021**

*Maharaja Institute of Technology, India*

## CERTIFICATIONS

- **Supervised Machine Learning: Regression and Classification – Coursera**
- **Applied Data Science with Python – University of Michigan, Coursera**
- **SQL for Data Science – University of California, Davis, Coursera**