

NIDA JAVED

Fairfield, Iowa 52556 • +1-202-369-3439 • nidajavedse@gmail.com
[LinkedIn](#) • [Portfolio](#)

DATA SCIENTIST

Data Scientist with nearly 2 years of experience in data science, AI automation, and cloud analytics within the telecom industry, complemented by 1 year of software development experience using Python and Java. Skilled in developing machine learning and LLM-based solutions for sentiment analysis, customer support evaluation, and predictive analytics, translating data into actionable business insights. Experienced across the full lifecycle of data-driven applications, from solution design and development to deployment and performance optimization. Proficient in Python, SQL, AWS, Tableau, and LLM technologies, with a focus on building scalable AI solutions and enabling data-informed decision-making.

- Machine Learning • Generative AI & LLMs • Predictive Analytics • Data Visualization • AWS Cloud Analytics
- Data Engineering • Python & Java Development • SQL & Database Management

Languages: Python, SQL, Java

Web: HTML, CSS, JavaScript

Web Services: RESTful Services, API, Web Services Integration

Web/App Servers: Cloud-Based Application Hosting, Apache Tomcat

Frameworks: Scikit-learn, Pandas, NumPy, Flask, FastAPI, Spring Boot

Databases: MS SQL, MySQL, PostgreSQL, MongoDB, Amazon RDS, Amazon DynamoDB

Design Patterns: Object-Oriented Design Patterns, MVC Pattern, Software Design Principles

SDLC: Agile, Scrum, Waterfall, CI/CD

Tools: Git, Docker, Postman, Jira, Maven, VS Code, GitHub, Jupyter Notebook, Tableau

Platforms: MacOS, Windows, Linux, AWS

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

PROFESSIONAL EXPERIENCE

PMCL-JAZZ, Islamabad, Pakistan • 07/2024 – 12/2025

PMCL-JAZZ is Pakistan's leading digital operator and telecommunications company, providing mobile, broadband, digital, and enterprise services to 70M+ subscribers nationwide.

Associate Data Scientist

Built AI/ML solutions for automation, predictive analytics, and customer experience using Python, SQL, AWS, Tableau, and LLMs.

- Developed an AWS-based LLM sentiment analysis pipeline, eliminating manual customer feedback analysis by 100% and enabling real-time insights through Tableau dashboards.
- Built Prophet, ARIMA, and ETS forecasting models on VIIRS Night Time Light data to estimate population distribution and urban growth, supporting telecom infrastructure expansion and investment decisions.
- Automated customer service quality assessment with an LLM-based email evaluation system, reducing manual reviews and improving consistency against predefined KPIs.
- Collaborated with cross-functional teams to develop role-based Tableau dashboards, enabling secure data access for business units including Tamasha (streaming), SIMOSA (telecom self-service) and Jazz Business (enterprise solutions).
- Converted business requirements into measurable KPIs and dashboards, improving visibility into performance and supporting faster decision-making.

Technologies Used: Python, AWS (EC2, Lambda, Bedrock, DynamoDB, S3, RDS, SageMaker), Large Language Models (LLMs) - Llama, Prompt Engineering, Machine Learning, Time-Series Forecasting, Tableau, Geospatial Analytics.

SASTA SOLAR, Lahore, Pakistan • 06/2023 – 07/2024

Sasta Solar is a Pakistan-based solar solutions provider specializing in affordable, reliable solar systems for residential, commercial, and organizational customers, including design, installation, and maintenance.

Software Developer

Developed and maintained backend and frontend software solutions at Sasta Solar, streamlining solar system operations and customer management.

- Developed and enhanced business modules using Java, Spring Boot, JavaScript, and SQL, implementing application features for customer management, order processing, and transaction workflows.

- Designed and integrated RESTful APIs with Spring Boot, enabling reliable frontend-backend communication via HTTP/HTTPS and JSON; validated endpoints using Postman.
- Developed and optimized database operations for customer, order, and transaction data using JPA/Hibernate and JDBC, improving query performance and data accuracy.
- Troubleshoot production issues in Java/Spring Boot applications using logs, IntelliJ IDEA, MySQL queries, and REST API testing, improving system stability and reliability.

Technologies Used: *Java, HTML, CSS, JavaScript, GitHub, Jira, Confluence.*

INDEPENDENT CONTRACTOR EXPERIENCE

Z-Cloud POS, Lahore, Pakistan • 04/2024 – 12/2025

Z-Cloud POS is a Cloud-based restaurant management platform providing POS, inventory management, analytics, and customer engagement solutions to streamline operations and improve efficiency.

Software Developer

Developed Z-Cloud's cloud-based Restaurant POS, building modules for orders, inventory, sales, tables, and staff management.

- Developed order management, billing, and menu features for a cloud-based Restaurant POS using Java, Spring Boot, and JavaScript, streamlining order and transaction processing.
- Designed and optimized MySQL database schemas for inventory, sales, and customer management using JPA/Hibernate and JDBC, supporting accurate transactions and real-time data synchronization.
- Implemented and enhanced RESTful APIs using Java, Spring Boot, and Spring MVC, facilitating frontend-backend communication through HTTP/HTTPS and JSON, and tested API functionality using Postman.
- Collaborated with QA engineers and product stakeholders to validate and troubleshoot new POS features using Postman, application logs, Git, and IntelliJ IDEA, reducing production defects and improving release stability.
- Refactored legacy Java/Spring Boot code, resolved application defects, and optimized MySQL/SQL queries using Git and GitHub-based development workflows, improving system maintainability and application performance.

Technologies Used: *Java, JavaScript, HTML, CSS.*

ACADEMIC PROJECTS

Maharishi International University (2026)

- **CarShareX – Full-Stack Car Rental Management System:** Developed a full-stack car rental marketplace connecting customers with individual and commercial vehicle suppliers. Built RESTful backend services with Java and Spring Boot for vehicle listings, customer/supplier management, bookings, verification, and reviews, with Spring Data JPA and Hibernate for data persistence. Developed the React/TypeScript frontend and implemented role-based workflows for secure bookings, supplier management, and controlled platform access.
 - **Pet Care Tracker – Full-Stack Web Application:** Developed a full-stack pet care platform using React, Node.js, and Express, enabling users to manage pet profiles, feeding, walking, grooming, medication, vet visits, and care notes. Built RESTful APIs for pet profiles, care activities, search/filtering, and protected actions, with bcrypt-based authorization and Zod validation. Implemented JSON file-based persistence with atomic writes, Jotai state management, Tailwind CSS, and PDFKit for downloadable care reports.
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EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 10/2028)

Maharishi International University, Fairfield, Iowa

Key Courses: *Software Engineering, Algorithms, Cloud Computing*

Bachelor of Science in Software Engineering

Riphah International University, Islamabad, Pakistan (07/2024)

CERTIFICATIONS

LLM Bootcamp - School of Interdisciplinary Engineering and Sciences (SINES), NUST