Zeeshan Ahmad Ansari

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PROFESSIONAL SUMMARY

Data analytics professional with 6+ years experience in systems engineering transitioning to AI/ML. Built 10+ end-to-end projects featuring predictive models with 90% accuracy and interactive dashboards. Proven expertise in Python, SQL, LLMs, and cloud deployment, with strong problem solving foundation from hardware design and validation experience.

EDUCATION

Northeastern University, Boston, MA — Jul 2023 - Jul 2025
Master of Science, Analytics (STEM) (GPA: 4.0/4.0)

Devi Ahilya Vishwavidyalaya, India — Aug 2016 - Jun 2018
Master of Technology, Embedded Systems (GPA: 3.55/4.0)

Rajiv Gandhi Proudyogiki Vishwavidyalaya, India — Aug 2011 - Jun 2015
Bachelor of Engineering, Electronics and Communications (GPA: 3.17/4.0)

EXPERIENCE

Reality AI Labs — AI Engineer — Sep 2024 - Apr 2025

- Led development of AI platform using Google Gemini LLM, ChromaDB, and Vertex AI, collaborating with 5+ engineers to deliver educational solutions serving 1,000+ users with 99.5% uptime and 95% reduction in assessment creation time
- Orchestrated production deployment of cloud infrastructure, coordinating with data scientists and product managers to implement automated pipelines generating $500K+ annual savings while reducing educator workload by 40%

Northeastern University — Research Assistant — Apr 2024 - Dec 2024

- Spearheaded analysis of 200GB+ supply chain datasets using Python and Azure Synapse Analytics, leading 3+ team members to develop predictive models achieving 85% accuracy in delivery risk assessment and 2% productivity boost
- Implemented machine learning solutions across 600+ variables through collaboration with academic supervisors and industry partners, delivering insights that reduced operational risks by 20% and prevented $2M+ in potential disruptions

Tessolve Semiconductor Pvt Ltd — Post Silicon Validation Engineer — Feb 2021 - Jun 2022

- Managed semiconductor validation projects converting LTX legacy to ETS88 platforms, leading 4+ engineers to develop automated test systems improving data processing efficiency by 70% and reducing validation cycle time by 30%
- Established data-driven quality control processes through systematic analysis, collaborating with design and production teams to implement statistical models achieving 95% yield prediction accuracy and reducing production defects by 25%

Newen Systems Pvt Ltd — Embedded Hardware Engineer — Nov 2020 - Jan 2021

- Designed analog sensing systems for Battery Energy Storage System (BESS), coordinating with production teams to implement data validation protocols ensuring 99% measurement accuracy and reducing system integration issues by 35%
- Led EMI/EMC testing validation initiatives, working with compliance teams to analyze signal integrity data and resolve production challenges, delivering solutions that met regulatory requirements and reduced field failure rates by 40%

Raychem RPG Pvt Ltd — Embedded Hardware Engineer — Jun 2018 - Nov 2020

- Architected control systems for utility-scale power electronics (500KW DC-DC converters, 250KW energy storage systems), leading 6+ engineers to analyze performance data and implement optimization strategies achieving 10x cost reduction
- Directed embedded system development using TI microcontrollers, coordinating with software and hardware teams to create comprehensive sensing solutions, resulting in 50% reduction in manual data analysis time and 20% reliability improvement

ACADEMIC PROJECTS

Multi-Agent Medical Assistant — Multi-Agent Systems, RAG, LangChain, Computer Vision, Medical AI

- Designed specialized AI agents using LangGraph and LangChain for medical diagnosis, achieving 92% user satisfaction among 200+ healthcare professionals and 90% content accuracy
- Built production-ready medical assistant with sophisticated RAG system, reducing manual diagnosis time by 67% and processing 1,000+ medical queries daily worth $10M+ in healthcare value

Automated Image Captioning Application — CNN-RNN, VGG16, LSTM, Computer Vision, Deep Learning

- Developed CNN-RNN architecture using VGG16 and LSTM for real-time image-to-text conversion, achieving 85% caption generation accuracy across 10,000+ test images. Built Streamlit web application supporting automated content generation, reducing manual image description time by 90% and potentially saving content creators $100K+ annually

British Airways Customer Review Analysis — Tableau, Sentiment Analysis, Customer Analytics, NLP

- Analyzed 7+ years of customer feedback data using NLP-based sentiment analysis, processing 100,000+ reviews and identifying 15+ critical service pain points. Developed interactive Tableau dashboard with time-series trends, revealing 23% satisfaction variance between traveler types and highlighting $5M+ revenue impact areas

Bank Marketing Campaign Prediction Tool — Random Forest, Machine Learning, SMOTE, Statistical Modeling

- Developed predictive models using Random Forest and Logistic Regression with SMOTE handling, achieving 90% prediction accuracy on 50,000+ customer records. Built interactive Streamlit application for real-time customer conversion assessment, identifying customer segments with 35% higher conversion rates and projected $2M+ additional revenue

TECHNICAL SKILLS

Python, SQL, R, Linux Shell Scripting, Databricks, BigQuery, Google Cloud, Vertex AI, Tableau, Power BI, Streamlit, Data Visualization, Statistical Analysis, EDA, Regression, Classification, Data Cleaning, LLMs, LangChain, Transformers, NLP, ChromaDB.