HARSH SHARMA
Data Science & Machine Learning

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EDUCATION

- **Master of Science in Data Science**   Alliance University, Bengaluru
  <u>Coursework:</u> Machine Learning, Deep Learning, Natural Language Processing, Data Visualization, Big Data Analytics

- **Bachelor of Computer Applications**   LJ University, Ahmedabad
  <u>Coursework:</u> Programming in Python and C++, Database Management Systems, Data Structures, Web Development

SKILLS

Technical Skills: Python, SQL, Power BI, Flask, SpaCy, Transformers, Data Analysis, NLP
Core Competencies: Machine Learning, Data Visualization, Problem Solving
Soft Skills: Communication, Collaboration, Analytical Thinking, Quick Learner

WORK EXPERIENCE

AI/ML Engineer   (Apr 2025 – Present)
WebMobi 360 (Hybrid)

- Developed AI-driven NLP solutions using spaCy and T5 Transformer models, focusing on text processing and grammar correction enhancements.
- Integrated Vosk speech recognition and Coqui TTS speech synthesis APIs within Flask applications to enable voice interaction.
- Designed and optimized modular Python applications for seamless deployment of AI solutions in real-world scenarios.
- Collaborated with team members to ensure efficient project execution and successful integration of AI components.

Data Analyst Intern   (Jan 2025 - Feb 2025)
Cognifyz (Remote)

- Extracted actionable insights from large datasets using Python and R, contributing to informed strategic business decisions.
- Designed and implemented interactive Power BI dashboards to provide real-time visualization of KPIs and business performance metrics.
- Collaborated with stakeholders to define reporting requirements, enabling more effective data-driven decision-making.

PROJECTS

AI Powered Voice Communication Assistant
• Built an AI voice assistant using Vosk (speech recognition), T5 (grammar correction), spaCy (NLP analysis), and Coqui TTS (speech synthesis).
• Delivered real-time feedback on speech and grammar to enhance communication skills.

Sales Data Analysis and Dashboard
• Developed a Power BI dashboard tracking sales KPIs, revenue trends, and insights using DAX.
• Enabled faster, data-driven decision-making for business stakeholders.

Lung Disease Prediction
• Designed a deep learning model for lung disease diagnosis, applying advanced preprocessing techniques.
• Improved diagnostic effectiveness through collaborative model refinement.

Accenture North America Data Analytics & Visualization Virtual Experience
• Cleaned, modelled, and analysed 7+ datasets to uncover content trends for a social media client.
• Presented strategic insights through a PowerPoint deck and video presentation.

Certifications

Object-Oriented Data Structures in C++ – University of Illinois Urbana-Champaign (Coursera) — *Grade: 99%*
SQL for Data Science – University of California, Davis (Coursera) — *Grade: 91.65%*
Supervised Machine Learning: Regression – IBM (Coursera) — *Grade: 82%*
Exploratory Data Analysis for Machine Learning – IBM (Coursera) — *Grade: 85%*
What is Data Science? – IBM (Coursera) — *Grade: 95.50%*
Ask Questions to Make Data-Driven Decisions – Google (Coursera) — *Grade: 98.95%*
Foundations: Data, Data, Everywhere – Google (Coursera) — *Grade: 93.75%*
Prepare Data for Exploration – Google (Coursera) — *Grade: 92.59%*
Process Data from Dirty to Clean – Google (Coursera) — *Grade: 90.08%*