

HARSH TIWARI

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Aspiring data scientist with hands-on experience in app development, backend optimization, and ML deployment.
Skilled in Python, SQL, AWS, and BI tools, with a passion for AI-driven problem solving.

Technical Skills

Languages: Python, Java, Dart, R
Databases: SQL, PostgreSQL, Firebase, MongoDB
Developer Tools: VS Code, Eclipse, AWS, Android Studio
Technologies/Frameworks: Flutter, TensorFlow, GitHub, PyTorch, WordPress
Soft Skills: Problem Solving, Communication, Analytical Thinking, Adaptability, Collaboration

Projects

SoberShot | University of Guelph, Guelph, ON | [View Project](#) **September – December 2024**

- Tasked with developing a solution for personalized beverage recommendations using available ingredients, leveraging Python and Streamlit.
- Designed and built a recommendation system powered by machine learning, using user inputs and ingredient matching.
- Integrated an intuitive Streamlit UI, applied filtering logic, and deployed interactive drink suggestions.
- Improved user satisfaction by delivering tailored drink choices, showcasing full-stack data product development.

Multi-Layer Neural Network | Sharda University, Delhi, India | [View Project](#) **January – April 2023**

- Tasked with building a neural network from scratch using Python and NumPy to understand foundational ML concepts.
- Implemented a feedforward network with one hidden layer and sigmoid activation, using core linear algebra operations.
- Trained the network on the XOR dataset, manually coded the forward pass, backpropagation, and weight updates.
- Successfully predicted XOR outputs, demonstrating key concepts of neural computation and training loops without external ML libraries.

Data Professional Survey Dashboard | Sharda University, Delhi, India | [View Project](#) **January – March 2024**

- Tasked with creating a data visualization project to extract insights from a global Data Professional Survey dataset.
- Designed an interactive Power BI dashboard to explore trends in job roles, demographics, tools used, and salaries.
- Applied data cleaning, DAX functions, and drill-down visualizations to enhance user interactivity and insight depth.
- Delivered a dynamic and shareable dashboard that helped highlight key patterns in the data industry.

Experience

Full Stack ML Engineer **April 2024 – August 2024**

Sunset Cafe

Remote

- Analyzed customer interaction data and identified **low engagement** and **manual reservation inefficiencies** as key revenue blockers.
- Engineered and launched an Android app featuring chatbot-based booking and menu browsing, improving user flow.
- Streamlined the reservation process, reducing manual input by **70%** and accelerating booking time by **50%**.
- Drove a **40%** increase in sales and boosted reservation conversion rates by over **35%** within 3 months of deployment.

Data Engineer Intern **January 2023 – November 2023**

Absolut Data Research

Gurugram, Haryana, India

- Diagnosed issues in unstable data pipelines and limited availability of machine learning models.
- Revamped infrastructure by optimizing AWS S3 storage and deploying real-time monitoring for critical pipelines.
- Increased ML model accessibility by **30%** and achieved a system uptime of **99.8%**.
- Established a robust foundation for scalable and production-ready ML deployment.

Education

University of Guelph **Sep. 2024 – Present**

Master's In Data Science

Guelph, ON

Sharda University **Aug. 2019 – December 2023**

Bachelors in Computer Science

Noida, India