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ABOUT ME

Graduate student in Information Science (Machine Learning) with a solid foundation in data science, embedded systems, and cloud computing. Skilled in AI, IoT, predictive modeling, web scraping, real-time data processing, and database management. Experienced in ETL processes, data pipelines, and data-driven applications. Familiar with DevOps practices, GitHub workflows, and vector databases. Strong analytical and communication skills with a problem-solving mindset, excel in collaborative environments and continuous learning.

EDUCATION

Master of Science in Information Science (Machine Learning) 2023-2025
University of Arizona, Tucson, USA GPA: 3.75

- *Related coursework:* Applied Natural Language Processing, Data analysis & Visualization, Data Warehousing, Artificial Intelligence, and Neural Networks

Bachelor of Engineering in Electronics and Communication 2018-2022
Dayananda Sagar University, Bengaluru, India CGPA: 7.42

- *Related coursework:* Major in Electronics & Communication with minor courses in VLSI, Embedded Systems, Probability and Statistics

TECHNICAL SKILLS

Computational

- **Programming Languages:** Python, R, C, C++, Java, SQL
- **Machine Learning & Data Science:** XGBoost, Scikit-Learn, Pandas, NumPy, TensorFlow, MATLAB
- **Cloud & DevOps:** Microsoft Azure, AWS, GitHub Actions, CI/CD, Infrastructure as Code(IaC)
- **Embedded Systems & IoT:** ESP32, Microcontrollers, MQTT, RTOS, IoT Protocols
- **Data Engineering & Databases:** Data Warehousing, SQL, NoSQL, Vector Databases (Weaviate)
- **Tools & Technologies:** Tableau, CUDA, Excel, Jupyter notebooks

PROJECTS

Fine-Tuning RoBERTa for Commonsense Validation: SemEval-2020 Task

- Applied feature engineering techniques such as tokenization, stopword removal, and embedding optimization, improving model accuracy by 15%.
- Fine-tuned RoBERTa using Hugging Face Transformers and optimized data preprocessing for efficient training.

Automated Data Extraction & Analysis

- Implemented web scraping using BeautifulSoup and Selenium to extract and convert data from The Movie Database into a structured database.
- Improved data processing efficiency by 40% using optimized parsing techniques.

Electric Vehicle Telematics System

- Designed and implemented a real-time IoT-based telematics system using ESP32, ensuring 95% uptime for vehicle data transmission.
- Developed cloud integration solutions for secure data storage, analytics, and seamless data communication.

EXPERIENCE & LEADERSHIP

IEEE Club - MDC Chair at Dayananda Sagar University

- Led technical initiatives and workshops to promote innovation in electronics and communication engineering.
- Organized seminars, hackathons, and research discussions to improve peer learning and collaboration.

CERTIFICATIONS

- Career Essentials in GitHub Professional Certificate – GitHub (Issued Mar 2025)
- Data Quality: Core Concepts – LinkedIn (Issued Mar 2025)
- DevOps Professional Certificate – PagerDuty & LinkedIn (Issued Mar 2025)
- Vector Databases Professional Certificate – Weaviate (Issued Mar 2025)