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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. Interested in applying AI, IoT, and predictive modeling to solve real-world problems. Experienced in web scraping, real-time data processing, and database management. I approach projects with a problem-solving mindset, strong analytical skills, and effective communication skills. I am also interested in ETL processes and data pipeline development to support efficient data-driven solutions. Additionally, I have experience working on data-driven applications and am familiar with DevOps practices, GitHub workflows, and vector databases. I work well in collaborative environments and I am always open to learning and contributing to team goals.

EDUCATION

Master of Science in Information Science (Machine Learning) 2023-2025

University of Arizona, Tucson, USA

- *Related coursework:* Applied Natural Language Processing, Data Warehousing, Artificial Intelligence, Neural Network

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 (Basics), 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

- Focused on fine-tuning the RoBERTa model to tackle the commonsense validation task from SemEval-2020.
- Distinguished between sensible and nonsensical statements using pre-trained language models.
- Utilized Hugging Face Transformers and Datasets libraries for data preprocessing and model fine-tuning.
- Achieved notable accuracy improvements in identifying nonsensical statements, showcasing the effectiveness of pre-trained models.

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.

Hearing Aid Simulation

- Designed a noise-filtering and signal amplification system using MATLAB to enhance hearing aid performance.
- Achieved a 30% improvement in signal-to-noise ratio through adaptive filtering.

House Price Prediction

- Developed a machine learning model using XGBoost to predict housing prices.
- Enhanced model accuracy by 15% through feature engineering and hyperparameter tuning.

Electric Vehicle Telematics System

- Designed and implemented a real-time telematics system using ESP32 for vehicle data transmission.
- Developed cloud integration solutions for secure data storage and analytics.
- Collaborated on IoT-based EV applications, ensuring 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 enhance 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)

ADDITIONAL INFORMATION

- Passionate about learning and documenting new technologies.
- Enthusiastic traveler and photographer, capturing compelling moments through visual storytelling.