YASHAS CHANDRA BATHINI

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🔗 https://yashas144.github.io/web/

PROFILE

An ambitious and creative graduate in Information Technology with a strong academic background. Motivated and meticulous mindset to complete tasks efficiently and effectively. At present pursuing Master's in Data Science at the University of North Texas. Proficiency in Python, Java, ReactJS, and JavaScript. Internship Experience in data analysis, data visualization, Artificial Intelligence, and Machine Learning models.

EDUCATION

Master of Science - Data Science   08/2024 – 05/2026
University of North Texas   Denton, Texas
- **GPA: 4 / 4 CGPA.**
- **Relevant Coursework:** Supervised and Unsupervised Machine Learning Methods, Deep Learning, Foundations of Artificial Intelligence, Software Development for AI-based systems, Neural Network Architecture, Fundamentals of Data Science, Principles & Techniques for Data Science, Data Visualization, Discovery & Learning with Big Data, and Applied Machine Learning for Data Scientists.

Bachelor of Technology - Information Technology   09/2020 – 04/2024
Jawaharlal Nehru Technological University, Hyderabad   Hyderabad, India
- **3.7 / 4 CGPA,** Ranked in Top 10 % of class
- **Relevant Coursework:** C, Java, Python, Computer Networks, Data Structures and Algorithms, Software Engineering, Web Application Development, Blockchain Technology, Cyber Security, MySQL, Artificial Intelligence, Machine Learning, Operating Systems, Probability and Statistics, Internet of Things.

SKILLS

Artificial Intelligence / Machine Learning:: RAG, LLMs - VADER, BERT, RoBERTa, Transformers, Hugging Face, Natural Language Processing, Pattern Detection, Clustering, Regression, Ensemble modeling, Forecasting, Support Vector Machine, Random Forest, Tensorflow, Keras, PyTorch, PySpark, and Scikit-learn.

Data Science: Data Wrangling, Data Visualization, Exploratory Data Analysis, Tableau, NumPy, Pandas, Matplotlib and Seaborn.

Programming languages: Python, Java and C

Web application development: React JS, Node JS, HTML, CSS, JavaScript.

Cloud: Azure

DBMS: Relational and Cloud databases: MySQL, SQL Server, and Snowflake DB.

Software Engineering Methodologies: Agile, Scrum

Adept in communication and interpersonal skills.

PROJECT EXPERIENCE

Smart Travel Planner - Multi Agent System using RAG   06/2025 – 07/2025
Link: https://github.com/yashas144/Smart_Travel_Planner 🔗
- **Tools & Technologies:** Python, Flask, REST APIs, Google Gemini API, Retrieval Augmented Generation(RAG), React JS, HTML, CSS.
- Developed a full-stack, AI-powered travel planner using a Python microservices architecture and a React.js frontend to deliver intelligent, resilient, and context-aware trip itineraries.

Key Achievements
- **Microservices Architecture**: Designed and built a backend with Flask, featuring an API orchestrator that delegates tasks to specialized, independent agent services for flights and knowledge retrieval.
- **Retrieval-Augmented Generation (RAG)**: Engineered a RAG pipeline using the Google Gemini API to deliver fact-grounded, context-aware AI travel recommendations based on a custom knowledge base.
- **Full-Stack Development**: Delivered a complete application with a responsive React.js frontend that consumes a RESTful Python API, ensuring seamless integration with CORS handling.

Sentiment Analysis on Amazon Fine Food Reviews   05/2025 – 06/2025
- **Tools & Technologies:** Python, Seaborn, NLTK, VADER, Transformers, Hugging Face, RoBERTa.
- Performed NLP-based **sentiment classification** on **500k+ Amazon food reviews**, with a rule-based (VADER) and deep learning (RoBERTa) setting.
- **Fine-tuned RoBERTa model** achieved **92% accuracy** and **VADER** achieved **84% accuracy** on labeled review data.

Research Project: Building a Generative Adversarial Network using Image Synthesis   01/2024 – 04/2024
Research paper: https://ijsrem.com/download/building-a-generative-adversarial-network-for-image-synthesis/
- **Tools & Technologies**: Python, Deep Learning, Neural Networks, Variational Autoencoders, TensorFlow, PyTorch, Stable Diffusion Pipeline.
- Designed and implemented a Generative Adversarial Network (GAN) for high-quality image synthesis using deep learning frameworks such as TensorFlow and PyTorch. Documented findings in a peer-reviewed research publication accepted by IJSREM.

PROFESSIONAL EXPERIENCE

Artificial Intelligence / Machine Learning Internship   01/2024 – 02/2024
Nexus Info
- **Tools & Technologies:** Python, Named Entity Recognition, NumPy, Pandas, Seaborn, Scikit-learn, Tensorflow, Keras, Tableau, SQL, Microsoft SQL Server, Visual Studio (VS) Code, Microsoft PowerPoint.
- Built and optimized ML models improving model accuracy by 15% on datasets with 100K plus rows.

CERTIFICATIONS

Machine Learning with Big Data
Coursera

Introduction to Data Science
Cisco

Career Essentials in Generative AI
Microsoft and LinkedIn

AWS Fundamentals: Addressing Security Risk
Coursera

AWS Fundamentals: Migrating to the Cloud
Coursera

Python Essentials - 1
Cisco