

ANOUSHKA MERGOJU

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EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, New York Aug 2022 - May 2024
Master of Science in Computer Science (GPA: 3.5/4.0)

- Graduate Research Assistant, EECS Excellence Scholar, EECS Summer Research Grant Recipient (\$5000), SU WiSE, SU IEEE, SU Residential Safety Aide, Bloomberg Accelerator Summer School Program Fellow 2023, WiDS Ambassador 2024
- Relevant Coursework:** Design and Analysis of Algorithms, Advanced Operating Systems, Advanced Computer Architecture, Data Science, Artificial Intelligence, Applied NLP, Cryptography, DBMS, Object Oriented Design in Java

GITAM University - School of Technology, Hyderabad, India July 2018 - July 2022
Bachelor of Technology in Computer Science and Engineering (GPA: 3.75/4.0)

- Graduated First Class with Distinction, Merit Scholarship Recipient x2, ELTAI Action Research Project Winner
- Relevant Coursework:** Data Structures, AI/ML, Cloud Computing, Data Mining, Web Technologies, Software Engineering

TECHNICAL SKILLS

Languages/Database: Python, Java, C, C++, C#, HTML/CSS, Haskell, JavaScript, SSMS, Mongo, MySQL, OracleDB, Postgre
ML Frameworks: TensorFlow, Keras, Scikit-learn, NLTK, PySpark, XGBoost, OpenCV, SpaCy, Seaborn, Plotly, HuggingFace
Web Frameworks: Node.js, React.js, Next.js, TailwindCSS, Flask, Angular, SpringBoot, Maven, Gradle, JUnit, PyTorch, Django
Tools: Tableau, Power BI, Hadoop, Kafka, Spark, Databricks, MS Excel, Virtual Box, Docker, Kubernetes, Streamlit, GIT, Jira
IDEs: Jupyter, Visual Studio, PyCharm, Colab, Weka, IntelliJ, Eclipse, Netbeans, Kaggle, Sublime Text, StarUML/UML, Simulink
Cloud, OS and APIs: Windows, Google Cloud (BigQuery), AWS, Azure, Linux/Unix, Ubuntu, REST API, Automation Anywhere
Methodologies: Data Storytelling, DBT, Statistical Modeling, Data Processing, ETL, ELT, Agile, Scrum, CI/CD, DevOps, Research
Certifications: Azure Data Engineer Associate, Azure Data Science Associate, AI Fundamentals, AWS Cloud, PagerDuty DevOps

WORK EXPERIENCE

Machine Learning Research Intern, Syracuse University - Syracuse, New York June 2024 - Present

- Building AI systems using TensorFlow, PyTorch, and Kubernetes to predict student enrollment and optimize resources
- Leveraging ML algorithms, Apache Kafka, and Neo4j for insights and infrastructure management
- Tech Stack:** TensorFlow, PyTorch, Kubernetes, Apache Kafka, Databricks, Neo4j

Operations Research Data Analyst, Syracuse University - Syracuse, New York May 2023 - Dec 2023

- Directed data architecture for a Drone Delivery project, creating data pipelines with PySpark, boosting efficiency by 30%
- Improved data efficiency by 40% through ETL processes and AWS integration (Lambda, S3, KMS, CloudWatch, CloudTrail)
- Created an algorithm, reducing delivery times by 15% and costs by 5% using dynamic program., greedy methods, and ML
- Validated and refined drone routing strategies with BlueSky and Simulink, improving energy efficiency
- Tech Stack:** ML, PySpark, SimuLink, OpenWeatherMap API, Google Maps JavaScript API, AWS, Bluesky Simulator

Data Analyst, InfyBytes AI Labs Private Limited - Bengaluru, India May 2022 - Aug 2022

- Increased operational efficiency by 10% with advanced Python scripts for HR data analysis
- Boosted workforce productivity by 12% using data-driven recruitment strategies, visualized in Tableau
- Applied ML techniques to identify patterns, improving efficiency by 5%
- Tech Stack:** PyCharm, EDA, Regression, Tableau, Seaborn, Excel, LinkedIn and Internshala Talent Insight Analysis

Python Developer, CodeSpeedy Technology Private Limited - Hyderabad, India Mar 2021 - June 2021

- Built and deployed a chatbot with 95% user satisfaction, utilizing natural language processing and machine learning
- Developed a heart attack prediction model, improving prediction accuracy by 20%. Published source code: [Contributions](#)
- Tech Stack:** Machine Learning, NLTK, TensorFlow, Keras, Scrapy, PyTorch, Scikit-Learn

PROJECTS

Portfolio Website (Web Development) | [GitHub](#) May 2024 - June 2024

- Developed a portfolio utilizing multiple technologies for navigation, rendering, responsive design, and backend support
- Tech Stack:** React.js, HTML/CSS, Next.js, Node.js, npm, TailwindCSS, JavaScript, Vercel

WellBot: AI Health Support Chatbot (AI, NLP and ML) | [GitHub](#) Feb 2024 - May 2024

- Implemented a mental health support module within an NLP-powered chatbot, increasing user engagement by 25%
- Configured a model connecting over 2,000 users to 500+ healthcare specialists and better classification accuracy by 13%
- Tech Stack:** Jupyter, NLP, SVC, Decision Tree, ChatBot Interface, Web Scraping, Git

Web Searching AI Assistant (AI and ML) | [GitHub](#) Nov 2023 - Jan 2023

- Developed an AI-powered web searching assistant to enhance search capabilities and user experience
- Tech Stack:** Streamlit, Python, Pandas, Scikit-learn, Altair, OpenAI LLM

Real-Time Event Processing System (Data Engineering) | [GitHub](#) July 2023 - Oct 2023

- Built a system that consumes and processes real-time event data from Azure Event Hubs, serialized in Avro format
- Tech Stack:** Python, Azure EventHubs, Apache Spark, Bash

Smart TextBook Exchange Web Application (Full Stack Development) | [GitHub](#) Feb 2023 - May 2023

- Led an Agile team of 4 to develop a web application for trading over 1,500+ books, using Spring Boot and Mongo
- Boosted speed by 25% and user satisfaction by API integration and testing with Postman and REST
- Tech Stack:** Java, IntelliJ, SpringBoot, Maven, Gradle, MongoDB, Postman, REST API

Hybrid Movie Recommendation System (Data Science, ML and NLP) | [GitHub](#) Sept 2022 - Dec 2022

- Engineered a system harnessing 25 million ratings, resulting in a notable 2.6% precision uplift over recent benchmarks
- Tech Stack:** Python, Jupyter, ML, NLP, SVM, KNN, TF-IDF