

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: 3.4/4.0)
- Graduate Research Assistant, EECS Excellence Scholar, EECS Summer Research Grant Recipient, SU WiSE
 - 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** - Hyderabad, India July 2018 - July 2022
Bachelor of Technology in Computer Science and Engineering (GPA: 3.7/4.0)
- 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, Kafka, Spark, Databricks, MS Excel, Virtual Box, Docker, Kubernetes, Streamlit, GIT, Jira, Power Apps
IDEs: Jupyter, Visual Studio, PyCharm, Colab, Weka, IntelliJ, Eclipse, Netbeans, Kaggle, Sublime Text
Cloud, OS and APIs: Windows, Google Cloud, AWS, Azure, Linux/Unix, Ubuntu, REST API, JSON, Automation Anywhere
Methodologies: Data Storytelling, DBT, Data Mesh, Statistical Modeling, Data Processing, ETL, Agile, Scrum, CI/CD, DevOps
Certifications: Azure Data Engineer Associate, Azure Data Science Associate, AI Fundamentals, AWS Cloud, PagerDuty DevOps

PROFESSIONAL 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, Jupyter, SimuLink, OpenWeatherMap API, Google Maps JavaScript API, AWS, Bluesky
- 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 March 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 projects on 'Coders Packet' [Contributions](#)
 - **Tech Stack:** Machine Learning, NLTK, TensorFlow, Keras, Scrapy, PyTorch, Scikit-Learn

PROJECT EXPERIENCE

- Portfolio Website** | [GitHub](#) May 2024 - June 2024
- Developed a portfolio utilizing multiple technologies for navigation, rendering, responsive design, and backend support
 - **Tech Stack:** React, HTML/CSS, Next.js, Node.js, TailwindCSS, JavaScript, Vercel
- WellBot: AI Health Support Chatbot** | [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:** NLP, SVC, Decision Tree, ChatBot Interface
- Web Searching AI Assistant** | [GitHub](#) Nov 2023 - Jan 2023
- Developed an AI-powered web searching assistant to enhance search capabilities and user experience
 - **Tech Stack:** Streamlit, Pandas, Scikit-learn, Altair, OpenAI LLM
- Real-Time Event Processing System** | [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** | [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, SpringBoot, Mongo, Postman, REST
- Hybrid Movie Recommendation System** | [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, ML, NLP, SVM, KNN, TF-IDF