

ANOUSHKA MERGOJU

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EDUCATION

- Syracuse University** - College of Engineering and Computer Science, Syracuse, New York **Aug 2022 - May 2024**
Master of Science in Computer and Information Science
- 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:** Cryptography, Applied NLP, Introduction to Data Science, Object Oriented Design, Design and Analysis of Algorithms, Operating Systems, DBMS, Social Media Data Mining, Advanced Computer Architecture
- GITAM University** - School of Technology, Hyderabad, India **July 2018 - July 2022**
Bachelor of Technology in Computer Science and Engineering
- Graduated First Class with Distinction, Merit Scholarship Recipient x2, ELTAI Action Research Project Winner
 - Relevant Coursework:** Data Mining and Warehousing, Probability, Statistics, Cloud, AI, ML, DBMS, Web Technologies

TECHNICAL SKILLS

Languages/Databases: Python, R, Java, C/C++, HTML/CSS, JavaScript, SSMS, MongoDB, MySQL, OracleDB, PostgreSQL
Frameworks: TensorFlow, Keras, Scikit, Numpy, PySpark, XGBoost, OpenCV, SpaCy, Pandas, Django, HuggingFace, Scala, SciPy, RAG, LangChain, PyTorch, MapReduce, NodeJS, ReactJS, NextJS, TailwindCSS, SpringBoot, Maven, Gradle, JUnit
Tools: Tableau, Power BI, QlikView, Docker, Kubernetes, Git, Jira, Hadoop, Flask, Kafka, Excel, Spark, Streamlit, Powerpoint, Simulink, RStudio, Jupyter, Looker, Visual Studio Code, PyCharm, Colab, Weka, Eclipse, IntelliJ, Netbeans, Kaggle, Postman
Other: Windows, AWS, Azure, Linux, Unix, Ubuntu, ETL, ELT, LLM, GenAI, Web Development, Website Maintenance, Statistical Modeling, Selenium, ML Pipelines, Data Storytelling, CI/CD, Agile, Scrum, DevOps, API Integration and Testing, REST, Predictive Modeling, Regression, Time-Series Modeling, Data Analysis, Data Modeling, Research, MLOps, Prompt Engineering, A/B Testing
Certifications: AWS Cloud Practitioner, Azure Data Engineer Associate Specialized, Azure Data Science Associate Specialized

WORK EXPERIENCE

- ECS Researcher (Data Science)**, Syracuse University - Syracuse, New York **June 2024 - Present**
- Built predictive models with Python, scikit-learn and TensorFlow on AWS enhancing student performance analytics by 20%
 - Integrated real-time data sources like engagement metrics, boosting model accuracy by 30% through faculty collaboration
 - Applied unsupervised learning in PyTorch, identifying 50+ anomalies in academic datasets for trends in student performance
 - Increased data processing speed by 1.5x with pandas and SQL, enabling faster project iterations
 - Scaled research workflows with Generative AI, improving project timelines by 15% via Git-based version control
 - Tech Stack:** Python, scikit-learn, TensorFlow, PyTorch, pandas, SQL, Git, AWS
- Research Assistant (Data Science and ML)**, Syracuse University - Syracuse, New York **May 2023 - Dec 2023**
- Engineered ML pipelines with Apache Spark and PySpark, optimizing last-mile delivery routes in real time
 - Streamlined data processing by 100,000 points per minute through AWS-integrated ETL, accelerating model training
 - Reduced delivery times by 10 minutes per route and lowered costs per mile using dynamic programming in Spark
 - Integrated real-time data from OpenWeatherMap and Google Maps APIs, improving model adaptability
 - Tech Stack:** AWS, PySpark, ML, Statistics, Simulink, OpenWeatherMap API, Google Maps API, 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 data analysis of an EdTech product
 - Boosted workforce productivity by 12% using data-driven strategies, visualized in Tableau to communicate findings
 - Applied ML techniques to identify patterns and recognize hiring trends, improving efficiency by 5%
 - Tech Stack:** PyCharm, Data Transformation, EDA, Regression Analysis, Tableau, Excel, LinkedIn 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 health prediction model, improving prediction accuracy by 20%
 - View source code: <https://coderspacket.com/contributor/Anoushka>
 - Tech Stack:** Machine Learning, NLTK, TensorFlow, Keras, Scrapy, PyTorch, Scikit-Learn

PROJECTS

- Portfolio Website (Web Application Development)** **May 2024 - June 2024**
- Built a responsive portfolio website using React.js, Next.js, and TailwindCSS for navigation and rendering across devices
 - Deployed the app on Vercel, incorporating dynamic content using HTML, CSS, and JavaScript
 - Tech Stack:** React.js, HTML/CSS, Next.js, Node.js, npm, TailwindCSS, JavaScript, Vercel, GitOps
- WellBot: AI Health Support Chatbot (NLP and Machine Learning)** **Jan 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, GitOps
- Gomoku-AI: CNN + Minimax Hybrid for Strategic Gomoku Gameplay (AI and Deep Learning)** **Sept 2023 - Dec 2023**
- Developed a CNN-Minimax hybrid AI for Gomoku, achieving 84% accuracy with adaptive strategies
 - Tech Stack:** Python, TensorFlow, Keras, Minimax, CNN, Adam Optimizer, Sigmoid Activation, RELU
- Hybrid Movie Recommendation System (Data Science, ML and NLP)** **Jan 2023 - May 2023**
- Built a hybrid recommendation system using collaborative, content-based, and matrix factorization, analyzing 25 mil ratings
 - Applied NLP to movie metadata and reviews, improving precision by 2.6%
 - Tech Stack:** Python, Jupyter, ML, NLP, SVM, KNN, TF-IDF, Matrix Factorization