ANOUSHKA MERGOJU

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EDUCATION

Master of Science in Computer & Information Science **Aug 2022 – May 2024**
Syracuse University *Syracuse, New York*

Bachelor of Technology in Computer Science & Engineering **July 2018 – July 2022**
GITAM University *Hyderabad, India*

TECHNICAL SKILLS

Programming Languages: Python, R, C, C++, Java, SQL, Haskell, UNIX, HTML, CSS, JavaScript, MATLAB, XML
Web Frameworks: PyTorch, Node, React, Flask, Angular, Spring Boot, OpenCV, Django, PySpark, Maven, Gradle, JUnit
Software Tools: Tableau, Power BI, Airflow, Kafka, NiFi, Databricks, MS Excel, Virtual Box, Docker, Kubernetes, GIT
IDEs & Notebooks: Jupyter, Visual Studio, PyCharm, Colab, Weka, IntelliJ, Eclipse, Netbeans, Kaggle, Sublime Text
Database Management: MS-SQL Server, MongoDB, MySQL, PostgreSQL, Oracle DB, MS Access
Cloud, OS & APIs: AWS, Windows, GPT, REST, SOAP, Postman, Linux, Ubuntu
Methodologies: Agile, Scrum, EDA, ETL, Time Series Forecasting, NLP, Microservices, Statistical Modeling, Data Management (Processing, Storing, Modeling, Quality, Security), Pipelines, CI/CD, Security Practices, Predictive Analytics

WORK EXPERIENCE

Operations Research Analyst **May 2023 – Dec 2023**
Syracuse University - College of Engineering & Computer Science *Syracuse, New York*

- **Tech Stack** : Jupyter, BlueSky Simulator, SimuLink, OpenWeatherMap API, Google Maps JavaScript API, AWS
- Led the **data architecture** for a Drone Delivery project, creating **data pipelines** and a **route optimization algorithm**, augmenting delivery efficiency by **30%**
- Spearheaded **ETL** process implementation and **API integration with AWS**, enhancing data efficiency by **40% through Statistical Analysis, Time Series Forecasting, Regression, A/B testing, and Agile methodologies**
- Executed a two-phased Energy Efficient algorithm using **Dynamic Programming and Machine Learning**, achieving a **15%** reduction in delivery times and **5%** reduction in costs compared to recent research benchmarks

Data Analyst Intern **May 2022 – Aug 2022**
InfyBytes AI Labs Private Limited - the homework app *Bangalore, India*

- **Tech Stack** : PyCharm, EDA, Regression, Tableau, Seaborn, Excel, Linkedin and Internshala Talent Insight Analysis
- Initiated advanced **Python scripting** to analyze HR datasets resulting in a **10%** improvement in operational efficiency
- Implemented **data-driven** adjustments to recruitment, retention, and compliance strategies, catalyzing a **12%** boost in annual workforce productivity and utilized **Tableau & Seaborn** to visually represent findings and forecasts

Python Developer Intern **Mar 2021 – June 2021**
CodeSpeedy Technology Private Limited *Hyderabad, India*

- **Tech Stack** : NLTK, TensorFlow, Keras, Scrapy, PyTorch, Scikit-Learn
- Built a **ChatBot**, mastering **text-processing and response generation**, achieving a **95%** user satisfaction rate. Engineered an **ML model** for heart attack prediction using **predictive analytics**, amplifying accuracy by **20%**
- Published custom projects on 'Coders Packet'. Link: https://coderspacket.com/contributor/Anoushka

ACADEMIC PROJECTS

WellBot: AI Health Support Chatbot | *NLP, scikit, NLTK, SVC, Decision Tree* **Feb 2024 - May 2024**

- Implemented a mental health support module within an **NLP-powered chatbot**, increasing user engagement by **25%**; connected over **2,000** users to **500+** healthcare specialists and better symptom classification accuracy by **13%.**

Smart TextBook Exchange Web Application | *Java, SpringBoot, MongoDB, Postman, REST* **Sept 2023 - Dec 2023**

- Led an **Agile** team of 4 to develop a web application for trading over **1,500+** used textbooks, using **Spring Boot and Mongo**. Boosted speed by **25%** and user satisfaction by **API integration and testing with Postman and REST**.

Lightweight Encryption Methods for IoMT: An Evaluation | *ML, Encryption Methods* **Feb 2023 - May 2023**

- Championed a 3 member team-study on **lightweight encryption algorithms**, refining IoMT medical imaging security. Performed an analysis of **RSA, AES, and RC4** leading to a novel algorithm, enriching encryption speed by **90%**.

Hybrid Movie Recommendation System | *Python, ML, NLP, SVM, KNN, TF-IDF, Git* **Sept 2022 - Dec 2022**

- Engineered a **hybrid recommender system** harnessing **25 million** ratings, amalgamating popularity, content, collaborative-filtering, and latent-factor, resulting in a notable **2.6%** precision uplift over conventional benchmarks