Ullas Reddy Chennuri

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EDUCATION

University at Buffalo (SUNY), Buffalo | GPA-3.91 **Aug 2023 – Dec 2024**
MS in Computer Science and Engineering (AI/ML Specialization)

Relevant Courses: Data Structures and Algorithms, Machine Learning, Deep Learning, Data Intensive Computing, Computer Vision, Operating Systems, Software Engineering.

VNR VJIET, Hyderabad **Jul 2018 – Jul 2022**
Bachelor of Technology, Information Technology

Relevant Courses: Java Programming, Object Oriented Principles, Analysis of Algorithms, DBMS, Python.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C, C++, Shell Scripting.

AI/ML Skills: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, LLMs.

Frameworks: React, Angular, Spring, Spring Boot, REST, JDBC, Hibernate, Selenium and Cucumber.

Databases/Cloud: SQL, MySQL, PostgreSQL, Azure Cloud.

Tools: IntelliJ, Eclipse, VS Code, Visual Studio, Jupyter, Postman, Git, Jira, Testrail.

EXPERIENCE

Junior Machine Learning Engineer - Intern, Ascendion **Jun 2024 – Aug 2024**

- Enhanced clinical trial accuracy and efficiency by leveraging LLMs for site and patient selection, reducing selection time by **30%** and enabling faster trial initiation.
- The site selection process also incorporated risk assessment for each site using the **gsm** package and displayed the associated costs, applying cost **optimization techniques** to ensure the most effective site selection.
- Built an automated clinical trial site checklist generation system based on the clinical study protocol, tailored for both study and site-specific needs, utilizing **Hugging Face Transformers** and **GPT LLMs**, which increased checklist generation speed by **50%** and ensured **100%** protocol compliance.
- Architected application features by building a robust backend in **Java** and a frontend using **Angular**, improving system reliability by **25%** and reducing processing time by **20%,** leading to a smoother user experience and faster data processing.

Independent Study, Under Prof. Dr. Shamsad Parvin (GitHub Link) **Jan 2024 – May 2024**

- Developed a **code-free data science pipeline** to automate preprocessing and build custom ML models, supporting **10+ preprocessing techniques** and various **classification/regression algorithms**.
- Utilized **React** for the front-end, **Flask** for backend, and **Python** for machine learning, processing datasets in CSV and Excel formats.
- **Automated data cleaning**, transformation, and feature selection, cutting manual effort by **70%,** with options to download cleaned data and trained models.
- Created an intuitive interface for model testing and **evaluation** with real-time performance **visualizations**, accessible to users of all technical levels.

Software Engineer L1, Workspot Inc **Aug 2022 – Jul 2023**

- Mastered software development tasks utilizing **Java, Spring Boot, JDBC, REST, Web, and SQL.**
- Built an Automation Testing Framework with **Java, Selenium, and Cucumber.**
- Configured PowerShell scripts for **Azure cloud** to enable AD and AAD user onboarding and offboarding.

PROJECTS

Fake News Detection Using Liar Dataset (Deep Learning) (GitHub Link)

- Maximum Test Accuracy of **70.88%** using Hybrid Architecture of **CNN with BERT Transformer**.
- Implemented deep learning models like **RNN, LSTM, Bi-LSTM, Bi-LSTM with attention,** and **BERT**.

Website for ACM_VNRVJIET (Link)

- Developed a website for a student chapter at the university using **React and Java Backend**.
- Frontend technologies encompass **React, HTML, CSS, Bootstrap**, and plain **JavaScript**.

LEADERSHIP

- Elected as Chairperson of ACM VNRVJIET, leading a team of 40+ volunteers and overseeing 700+ members.
- Head of a global-level technical fest, organizing a software hackathon for 50 teams from 10+ universities.

Link for all documents: Documents