

Mathang Peddi

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EXPERIENCE

- Evidence Based Cyber Security Lab, Research Assistant/Data Scientist (Atlanta, GA)** Jan 2024 - Present
- Leveraged Machine Learning and Data Mining to build **LLM** to help identify patterns in the data, and used regression analysis with **hyperparameter tuning** to detect suspicious chats/transactions with a predictive accuracy of **86%**
 - Integrated the **OpenAI API** to perform automated content moderation and detect inappropriate or spam messages within Telegram channels, reducing manual efforts by **60%**, and maintaining content quality standards.
- Citrix Systems, Software Engineer (Bangalore, India)** Jan 2022 - Dec 2023
- Engineered core features like the **Activity Manager** and Search Module for Citrix Workspace (WSUI) using **React**, boosting usability by **20%** and enhancing user satisfaction significantly by **40%**
 - Transitioned Workspace UI from cloud to on-premise environment (**90M users**), and established a clear separation
 - Reduced WSUI load time to **0.5 seconds** using Service Worker and caching, resulting in **80%** improvement
 - Automated application management in WSUI by adding scheduling for disconnecting, restarting applications, enhancing cost effectiveness by **30%** and system availability by **25%**
 - Contributed to tech fairs, participated in **hackathons**, organized bug bashes, led code reviews for **100+ PRs**, raised code standards, wrote technical documentation, and enhanced team efficiency and output
- Techimax IT Services, Software Engineer Intern (Hyderabad, India)** May 2020 - Jul 2020
- Implemented a website to simulate the **step-by-step working** of common algorithms, including searching, sorting, and machine learning techniques such as K-Nearest Neighbors, resulting in **2X** increase in student engagement
 - This project provided an interactive tool for better understanding and teaching algorithms for students and teachers

EDUCATION

- Georgia State University** Atlanta, Georgia
Master of Science in Computer Science (CGPA: 4.0/4.0), Dean's List Jan 2024 - May 2025
Relevant Coursework – Natural Language Processing, Artificial Intelligence, Cloud Computing
- PES University** Bangalore, India
Bachelors of Technology in Computer Science (CGPA: 8.5/10) Aug 2018 - Jun 2022
Relevant Coursework – Database Systems, Data Structures and Algorithms, Machine Learning

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, C++, Python, SQL, Shell Scripting(Linux/Unix)
- **Web Dev:** HTML, CSS, Git, React, Next JS, Node, MongoDB, AWS, Databases, Django, REST APIs, SDLC, RTL, Jest
- **Technologies:** Numpy, XGBoost, NLTK, PySpark, Pandas, Keras, Tensorflow, Sci-kit learn, Tableau, Gen AI
- **Other :** Deep Learning, Neural Networks, Hypothesis Testing, CI/CD, Docker, Kubernetes , LLM's, Scrapy, BS4

PROJECTS

- Multi-topic Information Retrieval Chatbot – LLM, AWS Sagemaker, Bedrock, Lambda** May 2024 – Jul 2024
- Developed an AI Chatbot using **Hugging Face** LLM Models and deployed it on **AWS**, enhancing user interactions with advanced NLP capabilities while ensuring scalability and reliability through cloud infrastructure
- Smart Utility Management System – Next JS, Tailwind CSS, D3 JS, Node JS, Mongo DB** Jan 2024 - May 2024
- Built a household utility management system that simplifies **service booking** for community members, increasing user satisfaction by **30%**, facilitating seamless arrangements for electricians, plumbers, and other essential service
- Job Salaries Estimator – Pandas, Numpy, Matplotlib, Scikit-Learn, XGBoost Regression** Jun 2022 - Aug 2022
- Built an **end-to-end** data science project from web scraping to model deployment, creating an AI driven tool to estimate job salaries for data science positions, and also integrated advanced Machine Learning algorithms to enhance accuracy

PUBLICATIONS

Co-authored the 14th chapter in the book '**Intelligent Systems and Machine Learning for Industry**', detailing an end-to-end speech recognition model for recognizing different **native accents of English**

OPEN SOURCE CONTRIBUTIONS

- Improved the **Boost C++** libraries by adding sophisticated algorithms and optimizations, improving versatility
- Authored **Data Science** and ML blogs on Medium, received a **gold medal** from **KD Nuggets**

KEY HIGHLIGHTS

- Winner of Tech Fair (**May 2023**) organized by **Citrix Systems**
- Consistently ranked in the **top 5** out of 360 participants in coding competitions at **PES University**
- **Treasurer** of the Indian Student Organization at Georgia State University