SOMU MEDAKA

Chicago, IL | 312-885-8501 | smedaka@hawk.iit.edu | www.linkedin.com/in/somu-medaka |
https://somuganesh1.github.io/portfolio/

SUMMARY

Dynamic software developer with 2 years of experience, proficient in C#, C++, JavaScript, Python, and SQL. Expert in utilizing frameworks like Angular 8 and react, along with strong skills in database management using Microsoft SQL Server; passionate about AI/ML, and DL. Eager to contribute to full-stack development projects, combining innovative problem-solving with a commitment to exploring the limitless possibilities of technology.

EDUCATION

Illinois Institute of Technology, Chicago, IL MAY 2025 (Expected)
Master of Computer Science, GPA, 3.66
Artificial Intelligence Specialization.
Course Work: Machine Learning, Deep Learning, Design and analysis of Algorithms.

SVIET Deemed to be University, Pedana, AP AUG 2021
Bachelor of Technology, Computer Science and Engineering, GPA 3.2

SKILLS

- **Programming Languages** - C# | C++ | Python | Java
- **Microsoft Technologies -** .NET (C#, ASP.NET, ADO.NET) ASP.NET MVC | ASP.NET Core | ASP.NET Web API
- **Frameworks & Libraries -** Angular 8 | React | Bootstrap 4
- **Databases -** MongoDB | Microsoft SQL Server || **Web Technologies –** HTML | CSS | JavaScript
- **Operating systems** – Windows | Linux | Unix

WORK EXPERIENCE

SOFTWARE ENGINEER
LTIMINDTREE, Hyderabad, India OCT 2021 – JUL 2023

- Contributed significantly to a full-stack project, completed 40% of the MySQL development and 30% of the react tasks, utilizing .NET technologies.
- Designed and deployed RESTful APIs using Flask for seamless integration with external repositories, enabling efficient data exchange and collaboration. Additionally, played a key role in a front-end project, contributing 20% to the implementation of account authorization and login functionalities.
- Applied machine learning techniques and algorithms using scikit-learn, TensorFlow, and PyTorch, to derive meaningful insights from data. Developed predictive models, conducted feature engineering, and performed statistical analysis.
- Developed user interfaces with modern JavaScript frameworks HTML5, and CSS3, which improved user satisfaction by 31%
- Effectively identified and resolved various bugs in software applications, achieving a 60% reduction in overall bugs through meticulous debugging and quality assurance practices
- Designed and developed web applications using JavaScript frameworks React.js and Angular.js to increase target audience engagement by 12%

PROJECT EXPERIENCE

Twitter Sentiment Analysis **Aug 2023 - Nov 2023**

- Explored various Deep Learning models for sentiment analysis of tweets with minimal bias including CNN, Bidirectional LSTM and RoBERTa, to train and evaluate their performance in sentiment analysis.

Advancing Fairness and Privacy in Federated Models **Aug 2023 - Nov 2023**

- Developed a Federated Learning project to enhance machine learning fairness and robustness, applying FedAvg and Q-FedAvg in Convolutional Neural Networks and researching gradient averaging with FEMNIST and UCI Adult datasets, focusing on differential privacy. Achieved substantial improvements in model accuracy and fairness, advancing towards more equitable AI solutions.

Detecting spam emails with machine learning optimized with bio-inspired metaheuristic algorithms.

- Developed a machine learning project to optimize email classifiers using bio-inspired algorithms, including a spam assassin and genetic algorithm, and designed the system with UML, block diagrams, and use case diagrams.