CHANDRA MAHESH PATWARI

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Education

University of Cincinnati	**August 2024 - Present**
Master of Engineering – Computer Science	*Cincinnati, Ohio*

Coursework: *Advanced Algorithms, Requirements Engineering, Distributed Operating Systems, Software Testing and Quality Assurance*

SASTRA Deemed University	**July 2017 - June 2021**
Bachelor of Technology – Mechatronics, ***CGPA: 7.93/10***	*Thanjavur, India*

Skills Summary

Languages:	Java, Python, JavaScript, TypeScript, C#, SQL, Bash, HTML, CSS
Frameworks:	ReactJS, Angular, Spring Boot, Flask, Django, .NET, Node.js, Flask
Tools:	Kubernetes, Docker, GIT, MySQL, MongoDB, Maven, Gradle, Terraform, Jenkins, Microsoft Suite
Platforms:	Linux, Web, Windows, AWS, GCP, Azure
Soft Skills:	Leadership, Event Management, Public Speaking, Time Management, Communication

Experience

Tata Consultancy Services	**July 2021 - July 2024**
Systems Engineer	*Hyderabad, India*

- Spearheaded the development and deployment of 5 interactive dashboards using **ReactJS** for front-end, **Spring Boot** framework for backend and **Docker**, **AWS** and **GCP** for deployment, elevating user engagement by showcasing key metrics and **increasing the visibility by 50%.**
- Developed a scalable microservices architecture using **Spring Boot**, implementing **REST APIs** that streamlined inter-service communication and improved scheduling efficiency, **reducing API response time by 35%** and enabling **30% faster data processing** across distributed services.
- Developed a Network Intrusion Detection System by establishing a robust data pipeline by leveraging **AWS Kinesis** streams to ingest and process data from the source, utilizing Java and Drools rule engine, significantly **reducing data processing time by 50%.**
- Implemented data parsing and persistence from Amazon Kinesis data streams to **MongoDB**, enabling effective storage and retrieval of processed data.
- Provided valuable technical support for an internally developed **IntelliJ plugin**, enhancing productivity and usability for the team, and **successfully resolved 100% of reported issues**.

Tata Consultancy Services	**March 2021 - May 2021**
Software Engineer Intern	*Remote*

- Automated project management processes by designing solutions for employee assignment and scheduling, **cutting project scheduling time by 30%.**
- Applied **Mixed Integer Linear and Non-Linear Programming (MILP/MINLP)** concepts to optimize complex assignment and scheduling challenges.

Projects

Road accident analysis and prediction	*Machine Learning, Data Analysis and Visualization*	**November 2020**

- Analyzed the different factors responsible for a road accident and how the severity of a road accident depends on these factors, visualized the data using **matplotlib and seaborn** libraries.
- Used various classification techniques like **KNN, Naïve Bayes, Decision tree, Logistic regression, Random Forest** and a boosting algorithm called **XG Boost** for predicting the severity of an accident with an **accuracy of 92%**.

Face mask detection System	*Transfer Learning, Computer Vision*	**September 2020**

- Built a face mask detection system using a pre-trained model with **96% accuracy.**
- The architecture used was **MobileNetV2 and CAFFE** framework was used for detecting face.

Leadership / Extracurricular

Unmaad, Daksh	**June 2020 - March 2021**
President, Head of technical Events	*SASTRA Deemed University, India*

- Led a dynamic team to secure victories in multiple intra and intercollege cultural fests, including Festember (NIT, Trichy), Rivera (VIT, Vellore), Instincts (SSN, Chennai), and Kuruksastra (SASTRA, Thanjavur), demonstrating exceptional leadership skills and event management prowess.
- Organized the highly successful 'Manufacturing using AR/VR' hackathon at Daksh'20 and 'Nitro Ignite' at Daksh'19, fostering an environment of innovation and collaboration among peers.