

# CHANDRA MAHESH PATWARI

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## EDUCATION

### University of Cincinnati

Aug 2024 – Apr 2026

*Master of Engineering – Computer Science*

**CGPA: 3.9/4**

- **Coursework:** Advanced Algorithms, Requirements Engineering, Distributed Operating Systems, Software Testing and Quality Assurance, Cloud Computing, Advanced Database Management Systems

### SASTRA Deemed University

Jul 2017 - Jun 2021

*Bachelor of Technology*

**CGPA: 7.93/10**

- **Coursework:** Artificial Intelligence and Expert Systems, Data Structures through C, Programming through C++, Microprocessors & Microcontrollers.

## TECHNICAL SKILLS

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

## EXPERIENCE

### Tata Consultancy Services

Jul 2021 - Jul 2024

*Software Engineer*

- Spearheaded the development and deployment of 5 interactive dashboards using **ReactJS** for front-end, **Spring Boot** framework for backend and **Docker** and **AWS** 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

Mar 2021 - May 2021

*Software Engineer Intern*

- 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*

Nov 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*

Sep 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.