

# AYUSH RANJAN

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## Experience

### Capgemini Technology Services India Limited

Oct 2022 – August 2023

*Associate Consultant*

*Mumbai, India*

- **Role:** Java Developer **Client :**Mercedes-Benz Research and Development India
- Designed, implemented, and maintained Java features, employing design patterns while performing code reviews.
- Proposed, Presented and actively supported a new and creative idea to replace an important internal function, which helped reduce user reliance on specific internal features. This idea earned **3rd place** among 60 competing groups at **Innocircle 2022, Mercedes' Internal Innovation forum.**
- Worked on innovative concepts to optimize project efficiency, leading to a remarkable **40 percentage reduction** in export testing time.

### Capgemini Technology Services India Limited

July 2021 – Sep 2022

*Senior Analyst / Senior Software Engineer*

*Mumbai, India*

- **Role:** Java Developer **Client :**Mercedes-Benz Research and Development India
- Conducted software analysis, programming, testing, and debugging. Wrote well-designed, efficient and testable code.
- Collaborated closely with the data model change team to enhance the functionality and adaptability of XDIS (Cross-platform Data Information System), a critical tool for vehicle diagnostics and automatic driving scenarios
- Dramatically optimized XML file migration time by an impressive **66.67 percentage**. Additionally, enhanced the tool's robustness by concurrently implementing indexing strategies for associated database tables.

### Capgemini Technology Services India Limited

Jan 2021 – May 2021

*Senior Analyst Intern / Senior Software Engineer Intern* **Role:** Java Full Stack Developer

*Pune, India*

- **Led a team of 6 interns** in developing a Medical Portal using Spring Boot for the backend and React for the frontend. Seamlessly integrated frontend and backend via **Axios**
- Implemented distinct user roles (Admin, Doctor, Patient) to streamline appointment booking, doctor profile viewing, and medical history management for patients, while enabling doctors to review histories and prescribe treatments.

## Education

### University of California, Santa Cruz

Sep 2023 – Present

*Master of Science in Computer Science*

### Manipal University, Jaipur

July 2017 – May 2021

*Bachelors of Technology in Information Technology.*

*GPA: 8.03/10*

## Technical Skills

**Programming Languages and Technologies:** JAVA, Python, SQL, MySQL, PostgreSQL, C, PyTorch, Keras, JUnit, React, Javascript, HTML, XML, CSS, Hibernate

**Software Development Tools:** Github, Log4j, Jenkins, Papyrus, Jira, Azure, Eclipse, VsCode

**Selected Courseworks:** Data Structures and Algorithms, Relational Database Management Systems, Python Programming, Operating System, Advanced Data Structure, Analysis Algorithms, Storage Systems.

## Selected Projects

### Sentiment Analysis using CNN | *Pytorch, TorchText, Jupyter Notebook* [Github](#)

Jan 2020 – May 2020

- Implemented a **neural network model using CNN** to analyse the sentiment of Text.
- Our final model provided us with a test accuracy (in percentage) of 87, validation accuracy of 89, and training accuracy of 88, and this project earned me **A+ grade in my Minor Project.**

### Covid-19 Detection from CT-Scan | *Keras, Tensorflow, Matplotlib, Google Colab* [Github](#)

June 2021

- Developed a standalone Convolutional Neural Network (CNN) using Keras to discern COVID-19 presence in a CT dataset of 350 images from 219 individuals.
- Designed a CNN architecture with 4 convolutional layers, incorporated data augmentation and dropout techniques to address overfitting, and employed binary cross-entropy for precise loss calculation

### Facial Attendance System | *OpenCV, Python, Tkinter, gTTS, Playsound* [Github](#)

August - November 2019

- Developed a facial attendance system employing advanced recognition to log known individuals' attendance with date and time, while also facilitating historical retrieval using names.
- Elevated user interaction by integrating Google Text-to-Speech technology to deliver personalized welcome messages to recognized individuals.

## Certifications

**AZ-900 Certification (2022) :** Secured 940/1000.

**Java Certification by HackerRank (2021)**

**SQL Fundamentals by SoloLearn (2019)**