

# AYUSH RANJAN

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## 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

## 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** the development of a Medical Portal **a team of 6 interns.**
- Managed the development of a Medical Portal using **Spring Boot** for the backend and **React** for the frontend, enabling distinct user roles (Admin, Doctor, Patient). This streamlined appointment booking for patients, allowed them to view doctor profiles, manage medical history, and enabled doctors to review histories and prescribe treatments.
- Seamlessly integrated frontend and backend via **Axios**, enabling secure data communication and enhancing user experience.

## 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 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)