Ayush Ranjan

📞 +918877808070 ✉️ ayuranjan.ranjan@gmail.com in ayuranjan ✉️ Portfolio ⬡ ayuranjan

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: 8.01/10*

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 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**.
- Presented 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 — *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 adaptablity 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 **85 percentage**, concurrently implementing efficient indexing strategies for associated database tables

Capgemini Technology Services India Limited — **Jan 2021 – May 2021**
Senior Analyst Intern **Role:** *Java Full Stack Developer* — *Pune, India*
- **Led** the development of a Medical Portal with distinct user roles (Admin, Doctor, Patient) using **Spring Boot** for the backend and **React** for the frontend with **a team of 6 interns**.
- 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 Tool: Github, Log4j, Jenkins, Papyrus, Jira, Azure, Eclipse, VsCode

Projects

Sentiment Analysis using CNN | *Pytorch, TorchText, Jupyter Notebook Git* — **Jan 2021 – May 2021**
- 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 Git* — **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 Git* — **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.

Personal Website using React | *React, Html, CSS, Bootstrap, JavaScript Link* — **June 2021**
- Designed, developed and hosted a portfolio website in Github

Certifications

AZ-900 Certification: Secured 940/1000.
Java Certification by HackerRank (2021)