Ayush Ranjan

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Experience

Capgemini Technology Services India Limited   **Oct 2022 – Aug 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.
- Implemented an innovative approach alongside the existing process, a micro frontend architecture, which streamlined a complex procedure. This allowed users to make specific changes independently while retaining the old process. This change dramatically enhances efficiency and user experience. 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 percent 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 IBM Db2 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   *GPA: N/A*

Manipal University, Jaipur   **July 2017 – May 2021**
Bachelors of Technology in Information Technology.   *GPA: 8.03/10*

Technical Skills

Programming Languages and Technologies: JAVA, OOP, Python, SQL, MySQL, PostgreSQL, C, PyTorch, Keras, JUnit, React, Javascript, HTML, XML, CSS, Hibernate, JDBC, Spring Boot, Axios, Fetch, AJAX
Software Development Tools: Github, Log4j, Jenkins, Papyrus, Jira, Azure, Eclipse, VsCode, Agile
Selected Coursework: Advanced Data Structure, Analysis of Algorithms, Relational Database Management Systems, Advanced Machine Learning Techniques, Operating System, Applied ML: Deep Learning, Advanced Computer Network

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](#)*   **Aug 2019 - Nov 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.

Introduction to Compiler Certification (2019): Course focused on compiler construction and design.

SQL Fundamentals by SoloLearn (2019): Course on SQL scripting.