# Aryan Panchal

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As a Computer Engineer with over 3 years of corporate exposure and 2 years of technical experience, I have exhibited problem solving skills and technical acumen. My polished communication skills, coupled with extensive leadership experience, have been pivotal in propelling multiple startups and small-scale companies toward operational excellence and scalability.

## Education

**Rajiv Gandhi Institute of Technology (RGIT)** — **Andheri West, Mumbai, India**
**Bachelor of Engineering, Computer Engineering** — **Dec 2021 – Present**

- CGPA – 8/10 (till 6th Semester)

**Khar Education Society** — **Khar West, Mumbai, India**

- XII Grade – Grade – 94% — **June 2019 – July 2021**

**SVKM's CNM School** — **Vile Parle West, Mumbai, India**

- X Grade – Grade – 92.6% — **2007 – 2019**

## Professional Experience

**Scanbo** — **Vancouver, British Columbia, Canada**
**Project Intern (lead)** — **Aug 2024 – Dec 2024**

- I joined Scanbo for an internship program in the department of Machine Learning & AI in Healthcare
- As a lead project intern, I was actively involved in producing a production ready machine learning model for Scanbo which detects Hyperglycemia using ECG and PPG signals through deep learning, under the direct supervision of the CEO, Scanbo. Performed data preprocessing, analysis, and augmentation of biomedical signals to enhance model accuracy and robustness in detecting hyperglycemia trends.

**Chemisphere** — **Mumbai, India**
**Start-Up Engineer** — **Dec 2021 – Present**

- I joined Chemisphere as a Start-Up Engineer for a full-time role to build the technical framework as well as oversee operations and making business decisions for active scalability and expansion.
- I led the strategic design and development of the Chemisphere official website and application from scratch using the SCRUM methodology. Improved the ranking of the website to #1 in various search engines through SEO thus increasing visibility. Single handedly pushed the online and social media growth of the company from a community of 10k audience to 250k. Participating as well as organising several business proposal meetings with top schools in Mumbai. I am also hiring and managing interns and providing essential training and required skillset to overcome both technical and non-technical challenges.

## Research Experience

**Department of Computer Engineering, RGIT** — **Mumbai, India**
**Research Student – Team Leader** — **July 2024 - Present**

- Currently working in the research area of "**Hyperglycemia Detection using ECG & PPG Signals**".
- The study focuses on utilizing these physiological signals to detect elevated blood sugar levels accurately. By applying advanced signal processing and machine learning techniques, the aim is to improve early diagnosis and monitoring. This research has the potential to enhance non-invasive methods for hyperglycemia detection.

**Department of Computer Engineering, RGIT** — **Mumbai, India**
**Research Student – Team Leader** — **July 2023 – May 2024**

- Published the research paper – "**A Comprehensive Survey of Machine Learning Algorithms for Multi-Disease Prognosis.**" in the International Journal of Innovative Research in Engineering.
- This study examines machine learning algorithms to improve disease prediction, accuracy, particularly for conditions like myocardial infarction, diabetes and chronic kidney disease. By integrating predictive algorithms and medical surveys, the research highlights advancements in diagnosis and treatment strategies.

**Department of Computer Engineering, RGIT** — **Mumbai, India**
**Research Student – Solo** — **July 2023 – May 2024**

- Published the research paper – "**An Introductory Study on Perceptron in Deep Learning**" in the International Journal of Innovative Research in Engineering.

- This paper centers on illustrating the basic functions of a perceptron, which is the central element of neural networks. It delves deeper into the aggregation of perceptrons and the importance of non-linear activation functions. This information explains deep learning and demonstrates how individual perceptrons come together to form functional models.

**Department of Computer Engineering, RGIT** **Mumbai, India**
**Research Student – Team Lead** **July 2022 – May 2023**

- Published the research paper – "**Technical and Management Specific Survey of Medical Systems for Effective Treatment**" in the International Journal of Innovative Research in Technology - an UGC approved journal.
- The article analyses the Hospital Management System, which digitalizes hospital functions to enhance efficiency in management, patient care, and cost control. It securely handles patient information, tests, and administrative duties like updating doctor and patient files. The system allows healthcare providers to monitor patient progress in real-time and gives them worldwide access to medical records. Created to facilitate smooth operations, it aids hospitals in adopting an integrated digital management solution.

## Relevant Undergraduate Courses

Software Engineering, Artificial Intelligence, Machine Learning, Data Warehousing & Mining, Management Information Systems, Database Management System, Data Structures, Cloud Computing

## Academic Achievements

**Google – Google Cloud Career Launchpad Cloud Engineer Track 2024**

- Successfully completed all the courses and labs and stood amongst the top 15 students of the class.

**Udemy – Full Stack Web Development Bootcamp 2023**

- Completed 66 total hours of Web Development Training Program and was awarded with completion certificate.

**Coursera – Crash Course on Python 2021**

- Completed 32 total hours of Python lectures offered by Google and achieved a grade of 92.50% along with a certificate.

**Copyright, Government of India – Systemic Approach in Multiple Disease Prognosis using Machine Learning Techniques 2023**

- Registered a Copyright under my name with the Government of India regarding the pre-final year project's abstract, system architecture and the conclusion.

**Techfest – College Ambassador, IIT Bombay 2021**

- Successfully completed the Social Media Marketing Internship as a College Ambassador at Techfest, IIT Bombay, with a gold medal.

**Academic Student Mentor – (2023-2024), RGIT, University of Mumbai, India**

- Chosen as the official mentor for the Student Mentor Program offered by University of Mumbai. Mentored over 3+ junior project batches having more than 50 students in the ways towards creating industry ready technical projects.

## Co-Curricular Achievements

**Founder/First President (2022 – 2024) – Entrepreneurship Cell, RGIT**
Served as the inaugural president and kickstarted the Entrepreneurship ecosystem by leading more than 100 students.
**Distinction, Grade 1 violin (2023) – London College of Music Examinations, University of West London**
Secured distinction in Grade 1 examinations for violin offered by LCM.
**Technical Lead (2024) – Anant Bharat Project, Dr. Ajay Prabhakar**
I was the Technical Lead and Project Lead for Project ANANTA BHARAT, a new venture that brought together the industry, government, and academia of India.

## Volunteering Experience

**Breast Cancer Awareness, Marathon – SOCH Social Wing, RGIT**
Successfully completed a marathon for Breast Cancer Awareness organised by the social wing of RGIT – SOCH.
**Volunteer – BHUMI NGO**
As a leader of kindness initiatives at Bhumi, I guided efforts focused on making a difference through volunteer work and involvement in the community. In my position, I focused on advocating for the organization's goals and motivating others to participate in changing discussions by showing kindness.

## Skills

**Programming languages:** C, Python, Java, JavaScript, R, SQL, PowerShell
**DB and Libraries**: MariaDB, MySQL, Pandas, Numpy, keras
**Languages:** English (Professional Working Proficiency), Hindi (Native or Bilingual Proficiency), Gujarati (Native or Bilingual Proficiency), Marathi (Elementary Proficiency)