Aryan Bansal

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SKILLS

PROGRAMMING

Technologies

Javascript • Shell • Python • LaTeX • C
C++ • HTML • CSS • ReactJS • NextJS
MongoDB • MySQL • Redux • Assembly
Lua • Git • Django • Docker • Linux
D3JS • NodeJS • ExpressJS • ReactNative
Neovim • Postman • Pytorch • Tensorflow
Typescript • AWS

Concepts

Artificial Intelligence • Machine Learning
Operating System • Data Visualisation
Linear Algebra • Computer Architecture
Internet of Things • Automata Theory
Database Management • Algorithms
Neural Networks • Behavioural Research
Information Security • Cognitive Science

Extracurricular

Coordinator of The Gaming Club of IIITH
Tennis • Football • Music

EDUCATION

IIIT HYDERABAD

B.Tech and Ms by Research in Computer Science

Nov 2021 - Present | Hyderabad, India
Social Media Head of Felicity, annual fest of
IIITH.
Coordinator of The Gaming Club of IIITH.
Researching Music Cognition under Dr.
Vinoo Alluri.

DBPS DELHI

Higher Secondary Education (11th, 12th)

Apr 2019 - Apr 2021 | Delhi, India

DPS NOIDA

Secondary School (Matriculation)

Apr 2007 - Apr 2019 | Noida, India

CERTIFICATIONS

ADVANCED AI AND ML

NIT Warangal

2021 | Remote

MERN STACK COURSE

Coding Shuttle

2023 | Remote

NETWORK SECURITY EXPERT 1

Fortinet

2022 | Remote

EXPERIENCES

MUSIC COGNITION GROUP | Ms Student

July 2023 - Present | Hyderabad, India
Working under **Dr. Vinoo Alluri** to study the popularity of modern internet culture
music. Specializing in modern trends on TikTok and Instagram and the cause of virality.

INFLUENCER GARAGE | NextJS Developer

Aug 2023 – Oct 2023 | Hyderabad, India
Refactored the existing codebase and rebuilt the webapp to make it more modular for
future development, resulting in decreased loading times and a new and improved
UI/UX.

NETHUES TECHNOLOGIES | Full Stack Intern

May 2023 – July 2023 | Delhi, India
Professional training working under experts at Nethues, contributing to real-life
industry-level projects for clients, learning latest methodologies and practices.

PRODUCT LABS | React Native Developer

Feb 2023 – Apr 2023 | Hyderabad, India
Developed cross-platform mobile app which helps track the position and friendliness of
different dogs on IIITH campus. Used sensors on dog collars along with
microcontrollers on lamp posts, uploading data to OneM2M.

UNICORN VENTURES | Software Developement Engineer

June 2020 – Oct 2022 | Noida, India
Developed and maintained companies website. Digital marketing campaigns and SEO
strategies to increase website traffic.

PROJECTS

PERCEPTUAL MIRRORS 2024 | Hyderabad, India

- Implemented several Image Processing and Vision Transformer tasks to compare
  the perception similarities and differences between Deep Neural Networks and
  Human Brains.
- GitHub

INCREMENTAL CLUSTERING 2024 | Hyderabad, India

- Implementing and blogging all the details of the research paper on incremental
  clustering using a variety of machine learning algorithms, compared them and
  analysed their working.
- GitHub

CODEFORCES VISUALISER 2023 | Hyderabad, India

- Using Codeforces API, created beatiful and interactive visualisations providing
  insights about userbase, problem-sets and contests.
- Youtube, GitHub

XV7 RISC-V OPERATING SYSTEM 2022 | Hyderabad, India

- Improvising existing XV6 OS created by MIT and making it feature rich. Adding
  functionalities to choose scheduling algorithms, test them using curated scripts
  and many more features.
- GitHub

DOTCOM LINUX SHELL 2022 | Hyderabad, India

- Making a linux shell from scratch in C. The shell has full implementation of
  job-control and auto-completion.
- Third party binaries and scripts are coded directly into the shell to make it
  functional right out of the box.
- GitHub