Arnav Singh

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Education

Indraprastha Institute of Information Technology, Delhi		CGPA: 7.26
B.Tech in Computer Science		(till 5th Semester)
Minor: Economics		
2021-2025		
Sant Gyaneshwar Model School, Delhi		Percentage: 89
CBSE		
2019-2021		
Delhi Public School, Karnal		Percentage: 93.4
CBSE		
2007-2019		

Skills

Expertise Area	Machine Learning, Natural Language Processing, Data Structures and Algorithms, Web Development, Data Science
Programming Language	C++, Python, Java, Kotlin, Javascript
Tools and Technologies	Git, MySQL, Pandas, MATLAB, Django, NumPy, LibGDX, Bash, Linux, LaTeX, Mininet, OpenSSL, Wireshark, Android Studio
Technical Electives	Graph Theory, Theory of Computation, Signals and Systems, Artificial Intelligence, Game Theory, Natural Language Processing, Mobile Computing, Statistical Machine Learning, Econometrics, Valuation and Portfolio Management

Projects

'Market Tracker'   (Feb,22 – Mar,22)
Plots a graph comparing the volume of shares sold and the change in
valuation for a particular share over the previous 7 working days using
the Alpha Vantage API.

ASM Assembler/Compiler   (May,22 – July,22)
Converts the ASM code into Binary, which is further used by the
simulator to showcase the values of registers for the Computer
Organisation course.

'Tank Stars'   (Nov,22 – Dec,22)
A 2D game built with LibGDX that allows two users to launch
projectiles at each other till the victor triumphs, for CSE201

Cab Booking System   (Jan,23 - April,23)
A Cab Booking Application that used MySQL, Python, Node, React,
OLAP, and RestAPI for the DBMS course.

911 Calls Project   (May,23 - June,23)
Performed several analytical operations on a dataset of 911 Calls on
Kaggle as a part of a Udemy course on Data Science with Python.

Analysing Digital Mobillisations and their Offline Ramifications
An SSH project, wherein I worked under Prof. Manohar Kumar to   (July,23 - Present)
understand the conversion of online communities into pressure groups
and the role of online platforms in influencing the same, with a focus
on vigilante groups.

TCP Client and Server   (Sept,23 - Nov,23)
Built client and server programs using the Socket API while utilizing
different techniques, including threading, forking, epoll, and select
functionalities.

CloudLabs Platform [Algorithms to Architecture Research Lab]
I am collaborating with Professor Sumit Darak on the development of a
web platform aimed at enabling ECE students to operate electronic   (Dec,23 - Present)
machinery in campus labs. My responsibilities center around the
construction of the platform using Django.

Positions of Responsibility

- House Captain (Narmada House) [DPS, Karnal]   (July,17 – May,18)
- Member, Physics Club, SGMS, New Delhi   (Nov, 19 – Oct,20)
- Core Member [Philosoc IIIT Delhi]   (April,22 - Present)
- STEM Instructor at MDD Bal Bhawan, Karnal   (May,23 - July,23)
- Volunteer at Club Mela, IIIT-Delhi   (July,23 - Aug,23)
- Member, Editorial Team, 'Common Sense' Newsletter   (Oct,23 - Present)
- Researcher under Prof. Manohar Kumar, IIIT-Delhi   (Aug,23 - Dec,23)
- Member, Philosoc Event Team, Odyssey IIIT-Delhi'24   (Nov,23 - Present)
- Software Developer, CloudLabs, IIIT Delhi   (Jan,24 - Present)

Awards and Achievements

- Scored an 8-Band in the IELTS-Academic Test conducted on December 26, 2023.
- Scored 99.3340238%ile (All India Rank- 7011) in the Joint Entrance Examination (Main) 2021 held in August 2021.
- Bagged All India Rank-7812 in the Joint Entrance Examination (Advanced), held in October 2021
- Scored 100%ile (All India Rank- 3) in the ICAR AIEEA-UG-2021 examination (Stream=PCM) held in September 2021.
- Won First Prize in the Science Model Explanation Contest (Transformers) at the Inter DPS Science Festival- 2017, held at DPS GBN, Greater Noida, on 28 December 2017. My team and I built a miniature model of a self-sustaining park running solely on renewable resources for the same.
- Participated and Won Prizes in multiple quizzes, including the 2022 Trivialis General Quiz, organized by Trivialis, the quizzing society at IIIT-Delhi, and the 2017 Inter-DPS Computer Science quiz, held at DPS RK Puram.

Interests and Hobbies

- I enjoy listening to New Wave artists, an interest propelled by my admittedly juvenile fixation with the Grand Theft Auto series. I particularly enjoy listening to Depeche Mode and New Order and the confluence of electronica with the post-punk scene.
- I enjoy playing tennis; I have been playing intermittently as an amateur for over ten years, participating in district-level competitions ever so often.
- I am keenly interested in history, especially the political and cultural upheaval during the Cold War. Consequently, I have developed a great appreciation for films based in that period, be they espionage thrillers or spaghetti westerns, for they present a unique insight into how people looked at the world around them and how it influenced filmmaking.

Declaration: The above information is correct to the best of my knowledge.
Arnav Singh
Date: January 11, 2023