Aryan Dubey

✉ aryandubey2389@gmail.com | 📞 +91 6204000406 | ⌨ github.com/AryanDubey2389 |
linkedin.com/in/aryandubey2389/

EXPERIENCES

SAMSUNG | Software Development Intern
Jun'23 - Aug'23 | Bangalore, Karnataka

Skills: Python, Research, Deep Learning, Algorithms.
- Paper titled "Coding Unit Partitions through Depth-wise Separable Convolution in VVC" accepted for presentation at IEEE Globecom.
- Pioneered an innovative approach for accelerating video encoding / decoding processes with higher accuracy using Depth-wise Separable Convolution.
- Significantly improved model performance, reducing errors by 40%, inference time by 30%, and lowered the bit-rate.

CENTROSIS TECH | Full Stack Developer Internship
Dec'22 - Mar'23 | Hyderabad, Telangana

Skills: MongoDB, Express.js, ReactJS, Node.js, Tailwind.
- Built an e-commerce website that boosted productivity by 20%, features including product listing, a cart, a wishlist, and a user-friendly admin panel.

IHUB-DATA | Full Stack Developer Internship
Aug'22 - Nov'22 | Hyderabad, Telangana

Skills: MySQL, Express.js, ReactJS, Node.js, Tailwind.
- Built 10+ pages, cut loading time by 30%, and handled login/signup, group, discussions, and more, both frontend and backend.

CCNSB LAB | Undergraduate Researcher
Jul'21 – Present | Hyderabad, Telangana

Skills: Python, Research, Machine Learning
- Working on how environmental identity is encoded intracellularly on 10 different Transcriptional Factors.
- Used Support Vector Machines (SVM) to determine the information theoretic parts of the dynamics of the transcription factors.

PROJECTS

C SHELL | Nov'21 | ⌨
Tools Used: C
- Implemented a shell from scratch that can create and manage new processes.
- Execution of commands in foreground/background, commands like cd,ls and file redirection commands are implemented. Some custom commands like pinfo, replay are also present. Pinfo and Replay are also present.

JOB APPLICATION PORTAL | Oct'21 | ⌨
Tools Used: MongoDB, Express.js, ReactJS, Node.js.[MERN Stack]
- Developed a REST-based job portal web application enabling users to search and apply for diverse job profiles while highlighting their skills.
- Empowered recruiters to post jobs according to their specific requirements.

BRICK BREAKER GAME | Feb'21 | ⌨
Tools Used: Python
- Developed a terminal-based 2D brick breaker game using OOPS concepts with power-ups like paddle size modifiers.
- Advanced levels feature moving bricks and a challenging Boss enemy.

EDUCATION

IIIT HYDERABAD
B.Tech in Computer Science + MS by Research
Jul'19 - Present | Hyderabad

SKILLS

LANGUAGES
C/C++, Python, JavaScript, Bash

FRAMEWORK
React.js , ExpressJS , Bootstrap

LIBRARIES AND OTHERS
Numpy, Pandas, Matplotlib, Linux, Node.js,MySQL, MongoDB

ACHIEVEMENTS

Dean's Merit List - Awarded to the top 5% students in Monsoon Sem'20
KVPY - Achieved 408 rank in KVPY among 1.5 million+ students.
Kick Start Round F - Achieved 1738 rank among 13000+ participants.
Meta Hacker Cup Round 2 - Achieved 2106 rank among 17000+ participants.

RESPONSIBILITY

TEACHING ASSISTANT
Spring'22 | Science-2 | IIIT-H
Handled 250+ students in the course. Conducted tutorials, lab sessions and designed assignments.

MUSIC CLUB COORDINATOR
Monsoon'21 | Unplugged | IIIT-H
Took auditions, arranged equipment and planned a well-organized event at an apt venue for 1000+ audience.

COURSEWORK

Data Structures and Algorithms
Operating Systems and Networks
Design and Analysis of Software Systems
Data and Applications
Statistical Methods in AI
Machine Data and Learning