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Mission

I have always to build great products and to work with best engineers of this world. But I have been underprivileged for it. Still I have been striving hard for it. For me, looking & understanding the massive source code of modern projects is overwhelming because academia didn't teach me computer science. I challenged myself by diving in open source projects like numpy, deepchem, huggingface and optax (by deepmind), and contributing to deepchem in a GSoC project.

I want to do the work, that Matters.

Work Experience

Amazon. IN.   *Hyderabad, India*
Software Engineering Internship   *May. 2022 - July. 2022*

- Direct offer of Internship from Amazon to Hackon National Finalists
- Learnt Amazon Web Services: AWS Lambda, AWS OpenSearch, AWS Cloud Development Kit, AWS Simple Queuing Services, CI/CD, Pipelines
- Took lead in development of India Payment Risk Team's AbuseFlash project, worked with the Product Team while creating on the Design. Created a real time dashboard for Abusive cashback, by improving the existing dashboard. Reduced latency of the existing system by 2 days. Deployed the project in Beta Pipeline stage. Used Java and TypeScript as programming language and AWS Lambda, SQS, CDK, ELK) as Tech Stack. Skills learnt/improved : OOPs, Web Automation, Testing
- Brought an outdated Web Automater back on production by updating dependencies, business logic. Used Python as Progamming language, Selenium as Techstack. Skills learnt/improved : OOPs,

Technocrats   *Warangal, India*
Co-founder, Product Manager, Designer & Developer   *Jan. 2020 - Present*

- A student team curious about Tech that participates in the programming contests and Hackathons
- Worked in a startup like environment, working on solving challenging problems off academics, yet another weekend in yet another Hackathon
- As a leader coordinated and managed the entire team, leading projects to a success and team to win in competitions
- Type of Technical Projects we worked on : Devloping REST APIs, Android Apps, Full stack applications in React and flutter, Backend technologies like Node and Django, Products using AI as a service (AaaS): developed application involving modern Chatbots, Detecion of Covid with chest X-Ray, using KNN for location prediction from Wi-Fi signal strength in Indoor Navigation,
- Hackon with Amazon National Finalists (Each of us got direct offer to intern at Amazon), Open Innovation Challenge RunnerUps, TRI NIT Hackathon Runner ups

Deepchem x Deep Forest Sciences   *California, Remote*
Fellowship   *June, 2022 - September, 2022*

- Despite rejected Google Summer of Code Proposal, got support for the my project
- Worked in Summer'22, on creating a Neural ODE API for Deepchem from scratch : from creating Design Document to developement and CI. Code Reviews
- Showing Ownership, as a part of project ported an existing Tensorflow model of Deepchem to PyTorch

Deepchem   *GitHub*
Open Source Contributer   *Jan. 2022 - Present*

- Reached out organisation for GSoC project, never stopped Open Source contributions since then !
- Worked on fixing Bugs, cleaning CI, minor projects, creating Usage Examples and Tutorials

Almach Labs   *Hyderabad, Remote*
Application Engineer   *Jan. 2022 - March, 2022*

- An early stage SaaS startup, worked in a fast paced competitive environment, followed agile methodologies
- Role of full stack developer, using Core Java and Flutter as Techstack. Developed REST APIs for communicating to designed and developed database created by me for the project specific usecase

Education

National Institute of Technology Warangal (Premiere Intitute of India)   *Warangal, India*
BTech. in Electronics and Communications Engineering, GPA : 8.72/10   *July. 2019 - Aug. 2023*
Awarded Institute Merit Scholarship thrice

Army Public School   *Kanpur, India*
Intermediate (Class XII)   *July. 2019 - Aug. 2023*
School Rank - 3, Board Exams

BNSD Shiksha Niketan Inter College   *Kanpur, India*

HighSchool   *July. 2019 - Aug. 2023*

School Rank - 1, Board Exams, State Rank - 5

Honors & Awards

Hackathons

2022	**Finalist & Runner Up**, Tri NIT Hackathon jointly organised by NIT Trichy, NIT Warangal, NIT Surathkal	*Virtual*
2021	**Finalist**, Hackon with Amazon	*Virtual*
2021	**Regionalist**, ACM ICPC	*Virtual*
2020	**Finalist & Runner Up**, Open Innovation Challenge by Innovation Garage	*Virtual*

Competitive Programming

2021	**Expert [Rating : 1601]**, Codeforces	*Codeforces*
2021	**Four Stars [Rating : 1908]**, Codechef	*Codechef.com*
2021	**Rank 1219, Global** , Codeforces Round 729	*Codeforces.com*
2021	**Rank 1515, Global** , Codeforces Round 732	*Codeforces.com*
2021	**Rank 372, Global** , Codechef June Cookoff	*Codechef.com*
2021	**Rank 247, Global** , Codechef April Cookoff	*Codechef.com*
2021	**Rank 633, Global** , SPYBITS IIT BHU Division 2	*Codechef.com*
2021	**Rank 413, Global** , Codechef April Long Challenge	*Codechef.com*

Academic

2022	**Fellowship**, Deepchem x Deep Forest Sciences	*United States, Remote*
2022	**Excellent Student Award**, Business For Non Business Professionals Course, NITW	*Warangal, India*
2022	**Institute Merit Scholarship**, NIT Warangal Academics	*Warangal, India*
2021	**Institute Merit Scholarship**, NIT Warangal Academics	*Warangal, India*
2020	**Institute Merit Scholarship**, NIT Warangal Academics	*Warangal, India*
2018	**Kishore Vaigyanik Protsahan Yojna (KVPY) Fellowship**, Indian Institute of Science (IISc), Funded by Department of Science and Technology (Govt. of India)	*Warangal, India*
2019	**State Topper Award by Hon'ble Governor of UP**, UP Board Highschool Exams,	*Lucknow, India*
2017	**State Topper Award by Chief Minister of UP**, UP Board Highschool Exams,	*Lucknow, India*

Development Skills

Languages	**C++, Python, Java**,
Machine Learning	**PyTorch, Tensorflow, Numpy, Pandas, Django, Deepchem, Selenium**,
Android	**SDK, Flutter & Dart, Firebase & Firestore**,
Backend	**Django**,

Open Source Contributions

DeepChem

Multiple Sub Projects

DeepMind

Contributed to Optax Library **PR Link**

 Fixed typings

Pandas

Contributed to core pandas library PR Link

Improved documentation of register_index_accessor functions,

Ivy - lets-unify

Contributed to core library PR Link

Function reformatting tasks

Kaggle

Datasets Track	**Global Rank - 126**,
Notebooks Track	**Expert, Global Rank - 378**,
Discussions Track	**Expert, Global Rank - 581**,
Competitions Track	**Contributer**,

Projects

GoVID

HACKON WITH AMAZON HACKATHON, NATIONAL AWARD WINNING PROJECT

- An Application Software to serve Healthcare by using advanced AI and Algorithms. Frontend developed in Flutter loosely coupled with the backend developed in Django.
- Designed to serve Patients, Doctors, Hospitals and Medical stores.
- Developed keeping COVID in mind, however serves the society in post COVID era

Covine   *I*

TRI NIT HACKATHON RUNNER UP

- Created a modern Android Application using Flutter for detecting the individual contact to trace the spread of Covid
- Main feature is alerting system which raises an alarm if the persons who came in contact in last 24 hours, were diagnosed with Covid. Implemented message passing, Graph Union in Flutter Application
- TechStack : Flutter, Android SDK, Python, Django, HuggingFace

Courses

2022	**Machine Learning Foundations**, AWS	*Udacity*
2021	**Complete Python Bootcamp**, Jose Portilla	*Udemy*
2021	**Fundamentals of Reinforcement Learning**,	*Coursera*
2020	**Data Structures**, University of California, San Diego	*Coursera*
2020	**Algorithmic Toolbox**, University of California, San Diego	*Coursera*
2020	**Sequence Models**, deeplearning.ai	*Coursera*
2020	**Convolutional Neural Networks**, deeplearning.ai	*Coursera*
2020	**Data Structures**, University of California, San Diego	*Coursera*
2020	**Neural Networks and Deep Learning**, deeplearning.ai	*Coursera*
2020	**Structuring Machine Learning Projects**, deeplearning.ai	*Coursera*

Program Comitties

Big Data Analytics & Consulting Cell | Technical Club, NITW   *NIT Warangal*

GENERAL SECRETARY   *Sep. 2020 - Present*

- Founding member of the club
- Conducted 15+ workshops/training sessions every year, on Data Science & Machine Learning benefiting around 1200+ students
- My Learning : Gained expertise in event conduction & management, Dealing with people

Literary & Debating Club | Cultural Club, NITW   *NIT Warangal*

JOINT SECRETARY   *Sep. 2020 - Present*

- Reformation member of the Generation 2.0 of club
- Conducted & participated in various types of cultural events ranging from elocution, debates to poem writing competitions.
- My Learning : Management, Public Speaking