KURISETI RAVI SRI TEJA

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Academic Details

Year	Degree	Institute	CGPA/Percentage
2019-2023	B.Tech in Computer Science Engineering with Specialization in Data Analytics and Artificial Intelligence	Indian Institute of Technology, Delhi	**8.64/10**
2019	Class XII, AP State Board	Sri Chaitanya Junior College, Vijayawada	**97.9%**
2017	Class X, AP State Board	Sri Chaitanya School, Vijayawada	**9.8/10**

Scholastic Achievements

- Secured **AIR-65** Rank among 2.5 lakh candidates in **JEE-ADVANCED** Examination-2019.
- Secured **AIR-136** Rank among 10 lakh candidates in **JEE-MAINS** Examination-2019.
- Stood among the **TOP-35** candidates in **NSEP-INPhO** Examinations 2018-19 and was awarded **GOLD MEDAL** and Certifcate Of Merit and attended the subsequent **Indian Orientation Cum Selection Camp** organized by **HBCSE(TIFR)** in **MUMBAI**.
- Stood among the **TOP-36** candidates in **INJSO** Examinations 2016-17 and attended the subsequent **Indian Orientation Cum Selection Camp** organized by **HBCSE(TIFR)** in **MUMBAI**.
- Secured **AIR-37** Rank in **KVPY-2017** in **SA-Stream** and became eligible for the **KVPY Scholarship**.
- Secured **State 1st Rank** among 1.9 lakh candidates in **AP-EAMCET** Examination-2019.
- Secured **State 1st Rank** among 1.3 lakh candidates in **TS-EAMCET** Examination-2019.
- Qualifed to appear in **INMO-2018; INAO-2018; INAO-2019; INChO-2019; INPhO-2019**.
- Secured 450/450 in **BITSAT-2019**.

*__HBCSE:__ Homi Bhabha Centre for Science Education. *__AIR:__ All India Rank.

Publications

Favoring One Among Equals - Not a Good Idea: Many-to-one Matching for Robust Transformer based Pedestrian Detection

- K.N Ajay Shastry, **K.Ravi Sri Teja**, Aditya Nigam, Chetan Arora

- Proposed a min-cost flow-based matching formulation to improve the detection of pedestrians on various pedestrian datasets using transformers.
- Achieved state-of-the-art results on various public pedestrian datasets.
- Our work appeared in WACV-2024 (IEEE Winter Conference on Applications of Computer Vision).

Work Experience

Cohesity India Private Limited, Bangalore [July'23 - Present]

- As a Platform team engineer, maintained and improved the critical bootstrapping services for Cohesity's distributed storage clusters
- Successfully spearheaded OS migration from CentOS 7 to RHEL 9 across on-premises, cloud, and hybrid environments, including comprehensive updates to SELinux policies, firewall configurations, and networking stack.
- Designed and implemented RESTful APIs for remote cluster management, enabling seamless control of IPMI users, storage devices, and network interfaces while eliminating need for physical access

Internships

Cohesity India Private Limited, Bangalore [June'22 - July'22]

- Performed backend changes to add support for the Next Generation Cloud Edition.
- Enabled the support for adding tags to GCP-clusters deployed with the Control VM image.
- Also received a Pre-Placement Offer after my internship.

Courses Done

- **Computer Science:** Introduction to Computer Programming, Data Structures & Algorithms, Discrete Mathematics, Digital Logic & System Design, Computer Architecture, Operating Systems, Artificial Intelligence, Computer Networks, Programming Languages, Theory of Computation, Parallel Algorithms, Machine Learning, Analysis & Design of Algorithms, Cryptography, Data Mining, Deep Learning, Natural Language Processing, Computer Vision, B.Tech Project Parts-1,2.
- **Mathematics:** Probability & Stochastic Processes, Linear Algebra, Calculus, Number Theory.
- **Electrical:** Introduction to Electrical Engineering, Signals and Systems

Technical Skills

- **Programming Languages:** Python, Go, C++, Java, C
  - Also worked with HTML, CSS, VHDL, SML, Assembly Language
- **Libraries:** PyTorch, Numpy, Matplotlib, Pytest, Open-CV, Open-MP, Open-MPI, Scipy, Pandas, CUDA, Huggingface

Research Projects

- **Object Detection using Transformers (Prof.Chetan Arora)** (July 2022 - June 2023)
  - Explored architectures of various state-of-the-art transformer-based object detectors.
  - Used DETR-based models to improve the accuracy of detecting various objects in the MAVI (Mobility Assistant for the Visually Impaired) Dataset.
  - Also worked on improving the accuracy of detecting pedestrians in various public datasets using transformer-based object detectors.

CS Course Projects

- **News Recommendations Using HNSW (Prof.Subodh Kumar)** (March 2022)
  - Used the Approximate Nearest Neighbour Search to provide news recommendations.
  - Recommendations were provided on the basis of learnt HNSW predictions.
  - Used Open-MPI and Open-MP to distribute the algorithm across multiple nodes and cores.
- **Web Database System (Prof.Maya Ramanath)** (March 2022)
  - Developed a Web Database System with a PostgreSQL database as backend
  - Used HTML,CSS,Flask and psycopg as frontend
- **Chat-Application (Prof.Abhijnan Chakraborthy)** (October 2021)
  - Developed a simple chat application using sockets in **Python**
  - Added support for both broadcast and unicast in the application.
- **Multi-Core Processor Simulation (Prof.Preeti Ranjan Panda)** (March 2021-May 2021)
  - Simulated a Multi-Core Processor that supports a sub-set of MIPS Instructions and Non-Blocking Memory in **C++**.

ML Course Projects

- **Dialog Parsing for Task-Oriented Dialog Systems (Prof.Mausam)** (April 2023)
  - Used pre-trained large language models to develop an NLP-Model that generates a parsed output based on the given context and dialogue information.
- **Traffic Prediction (Prof.Sayan Ranu)** (November 2022)
  - Used Spatio-temporal Graph Neural Networks to predict the traffic data in a road network for future time-stamps using data from past.
- **Taxi-World Learning (Prof.Rohan Paul)** (November 2021)
  - Implemented various reinforcement learning techniques such as Value Iteration, Policy Iteration, Q-Learning, SARSA to obtain the best possible policy for a taxi in a grid world that performs simple actions such as Pickup, Putdown, Move up, Move down, Move right and Move left.

Co-Curricular Activities

- **Chess:** Played Chess in State Level Competitions.
- Completed an Online course(**ARJUNA Webinars for Human Excellence or AWHE**) and also attended a workshop (**Prerana Workshop**) in 2019, conducted by the **ARJUNA GROUP TRUST**, a non-profit NGO.
- **Rubik's Cuber:** Can solve 2x2x2,3x3x3,4x4x4 Rubik's Cubes.
- **Competitive Coding: 4*** Coder on **Codechef** with Max-rating of 1962 and **Pupil** on **Codeforces** with Max-Rating 1394. Also a **Problem-Setter** on Codechef.