

AKASH TADWAI

Final-Year Undergraduate | Computer Science & Engineering Science | IIT Hyderabad

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EDUCATION

- Indian Institute of Technology Hyderabad** 2018 - 2022
- > Final-year B.Tech student majoring in **Computer Science & Engineering Science** > CGPA: 9.32/10.
 - > **Minor in Entrepreneurship & Management** > CGPA: 10/10
- Sri Chaitanya Junior College** 2016 - 2018
- > MPC Student > Grade: 988/1000.

WORK EXPERIENCE

- Summer Engineering Intern | Publicis Sapient** May - July 2021
- > Designed a generic **sectioning algorithm** for Resume Parsing which parses various kinds of resumes.
 - > Used **MultiThreading**, **Tesseract-OCR**, and **DeepLearning** methods to achieve SOTA accuracy (>85%) in detecting various sections of a resume. Built an event-driven pipeline on **AWS** using Docker-based **Lambda** functions and **Amazon SQS**.
- IIT Hyderabad**
- > **Teaching Assistant:** Software Development Fundamentals course May - July 2021
 - > **Teaching Assistant:** Introduction to Programming Dec 2020 - March 2021

ACHIEVEMENTS

- > **Academic Excellence Award:** Received Academic Excellence Award for outstanding performance in Academics during Jan-May 2021 & Aug-Dec 2021 Semester.
- > **I'm Beside You's Hackathon:** Won 5000 INR Cashprice for the Explainability in a DeepLearning Competition for Smile Classification Conducted in IITH.

PUBLICATIONS

- Continual Learning for Anomaly-based Network Intrusion Detection** [Accepted @ COMSNETS](#) Jan - June 2021
- Worked with [Dr. BheemArjuna Reddy](#) & [Dr. Sumohana](#) on Evaluating the **suitability** of CL algorithms on network datasets. Studied the impact of class imbalance on **task ordering** and its effect on the design of CL-based A-NIDS in the *Class Incremental and Domain Incremental* settings.

PROJECTS

- Designing a Database for IMDB Dataset** [Project Link](#) April 2021
- Designed a flexible and efficient **Relational Database** using *PostgreSQL* for movies and series based on IMDB datasets. Developed Informative **ER diagrams** and flexible relational table schemas for common Queries.
- Chat application with socket programming** [Project Link](#) April 2021
- Developed a chat room application using socket programming as a part of the Computer Networks coursework. Used Python socket API and Multithreading so that multiple clients can connect to a single server and chat in real-time.
- Unbeatable Tic-Tac-Toe** [Project Link](#) May 2019
- Designed an Unbeatable Tic-Tac-Toe Web app from scratch using **Minimax-Max** AI Algorithm and **Alpha-Beta Pruning** as a part of the **Microsoft-Engage** 2020 Program. Implemented a single-player (playing with AI) and a two-player game with **undoing** a move feature.
- Stoichy** [Project Link](#)
- Stoichy is a Domain Specific Language for balancing Complex Chemical Equations. Written Lexer, Parser, Semantic Analyser from scratch in Ocaml and Python.

SKILLS

Programming Languages C, C++, Python, Bash, Javascript
Libraries PyTorch, Scikit-learn, Keras, OpenCV, Numpy, Pandas
Tools Git, \LaTeX , Jira, UNIX

CERTIFICATIONS

- > **Problem Solving Hackerrank:** [Basic](#) [Intermediate](#)
- > **Coursera:** [Neural Networks and Deep Learning](#) [Improving Deep Neural Networks](#)
- > **Kaggle:** [Pandas Specialisation](#)

COMPETITIVE PROGRAMMING

> [Codechef](#) > [Codeforces](#) > [Leetcode](#) > [Interviewbit](#)