

AKASH TADWAI

QR Analyst @JP Morgan Chase | ES-CS @ IIT Hyderabad '22

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EDUCATION

- Indian Institute of Technology Hyderabad** 2018 - 2022
- > Final-year B.Tech student majoring in **Computer Science & Engineering Science** > CGPA : 9.25/10 .
 - > **Minor in Entrepreneurship & Management** > CGPA : 9.75/10
- Sri Chaitanya Junior College** 2016 - 2018
- > MPC Student > Grade: 988/1000.

WORK EXPERIENCE

- Summer Engineering Intern | Publicis Sapient** May - July 2021
- > Developed 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**.
 - > **Technologies:** Pytorch, Tesseract OCR, Docker, AWS Lambda, 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 Relational 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.
- Technologies:** PostgreSQL, ERDPlus, Microsoft Azure VM
- Secure Chat Application & Simulation of MITM and Downgrade Attacks** [🔗 Project Link](#) May 2022
- Created a secure chat application with **TLS** and **TCP** as underlying protocols.
- Simulated a **TLS downgrade** attack and a **MITM attack** (Assuming root CA is hacked)
- Technologies:** Python Socket Programming, openssl python library shell commands, LXC containers
- Unbeatable Tic-Tac-Toe** [🔗 Project Link](#) May 2019
- Implemented 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.
- Technologies:** Javascript, HTML, CSS

[</>](#) SKILLS

Programming Languages C, C++, Python, Bash, Javascript

Libraries PyTorch, Scikit-learn, Keras, OpenCV, Numpy, Pandas

Tools Git, \LaTeX , Jira, UNIX

CERTIFICATIONS

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

COMPETITIVE PROGRAMMING

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