

# Brijesh Vora

📍 Davis, CA   ✉ bhvora@ucdavis.edu   ☎ (530) 220-5097   in LinkedIn   🐙 Github   🎓 Coursera   🌐 Website

## 📄 SUMMARY

- My Research interests are ML, Security and Networking.
- Working on Privacy Preserving Machine Learning (PPML) and Multi-Party Computation (MPC).
- Strong experience in Machine Learning, Python, C/C++, Algorithms, Back end, and Systems.

## 🎓 EDUCATION

### University of California, Davis, MS in Computer Science

Sep 2021 – present

- Teaching Assistant experience -
  - BAX 441 Statistical Exploration and Reasoning.
  - MAT 21C Partial Derivatives and Sequences.
  - ECS 036A Programming and Problem Solving
- Conducted Discussion sessions to guide students to solve worksheets and practice problems.
- Conducted office hours to solve the difficulties of the students and also graded the students based on the rubric.
- **CGPA - 4.0/4.0**

### Indian Institute of Technology, Tirupati,

B.Tech in Computer Science

Aug 2017 – Jun 2021

- CGPA - 8.35/10.

## 📁 PROJECTS

### Social Technical Congruence for Apache Software Foundation, UC Davis 📄

Sep 2021 – Dec 2021

- **Skills:** Empirical Software Engineering, Data Mining, Python, git, Machine Learning.
- Designed a machine learning model with 95% accuracy using 265 Apache projects which can tell whether the Apache Incubator project will graduate or retire based on Social and Technical Congruence.
- Redesign an algorithm that efficiently converts git code to the matrix and incorporates developer communication through the Files Changed Together (FCT) method.

### Workflow Management System, IIT tirupati 📄

Aug 2020 – Jun 2021

- **Skills:** Python, Flask, JSON, MongoDB, Algorithms, Distributed and Parallel Computing
- Developed a general-purpose WMS as a part of the NM-ICPS TIH initiative at IIT Tirupati which processed TA/RA jobs, Course Registration and Course Add Drop Efficiently.
- Created dynamic forms specific to each user. Efficiently processed and handled more than 2000 jobs/day.
- Outperformed existing WMS from industry and academia like scientific workflows, crossflow.

### Detecting VPN/Proxy, Smart Indian Hackathon 📄

Aug 2020 – Aug 2020

- **Skills:** VPN/Proxy, Security, Networking, Scripting - bash, python, tracking, sniffing, automation.
- Developed a tool that can detect VPN using 4 APIs (shodan, IP2proxy, IPquality, vpnapi) and does real-time analysis.
- Implemented honeypot for detecting real-time attacks from VPN/Proxy enabled users.

## 👤 PROFESSIONAL EXPERIENCE

### Software Engineering Intern, Ennetix, Inc.

Jun 2022 – present | Davis

- Developed a Plugin for Zeek which can process the logs in real-time.
- Worked on the backend system to integrate Zeek and improve log processing and alert system.
- Worked on clustering algorithm to cluster the logs/ip packets based on different behavior (normal/ anomalous).

### Research Intern, IIT Tirupati

May 2020 – Jul 2020 | India

- **Skills:** Data Science, Python, Flask, Numpy, Pandas, Scikit-learn, Seaborn, Apache.
- Developed an algorithm that can track mobility patterns in red zones due to Covid19 in all states of India.
- Delivered daily reports generated automatically using Facebook and Govt data in PDF and PPT format to govt officials for better managing covid cases.
- Composed reports had density movement maps of each state and city stating where the reinforcements and strict conditions for movement need to be placed.
- Got featured in 3 newspapers: The Hindu 📄, Economic Times 📄, Indian Express. 📄 Chief Minister of Odisha tweeted 📄 finding the tool helpful for fighting against coronavirus.

## 🏆 ACHIEVEMENTS

- Awarded GGCS award for outstanding contribution to GGCS Start-Up Club.
- Jee Advanced Rank - 3670 /220K (All India Rank).
- Jee Mains Rank - 8890 / 1.4M.
- MCM scholarship for 4 yrs at IIT Tirupati - covers full tuition fee and a monthly stipend

## 👑 LEADERSHIP

### Internship Representative, IIT Tirupati

May 2019 – Jul 2020 | India

- Facilitated Summer/Research Internship to 120 Students of my batch.
- Coordinated student responses, handled resumes, contacted and managed companies on campus for Interview rounds.

## 🧠 SKILLS

**Python** | **C/C++** | **Javascript** | **Machine Learning**  
**Tensorflow** | **Data science** | **MS Office** | **Git**  
**Databases (SQL, MongoDB, Postgres)** | **Problem Solving**  
**zeek** | **Azure DevOps** | **Linux** | **AWS/GCP**  
**Apache Kafka** | **Algorithms** | **OpenMP, MPI, CUDA**  
**bash** | **R** | **Matlab** | **Spark** | **Big Data**  
**Security & Privacy**