

Brijesh Vora

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📄 SUMMARY

- Building ML platform at Sailpoint Technologies.
- My Research interests are ML, Security, and Systems.
- Strong experience in Machine Learning, Python, C/C++, Algorithms, Back end, and Systems.

🎓 EDUCATION

University of California, Davis, MS in Computer Science
Sep 2021 – Jun 2023

- 2 yrs of Teaching Assistant experience.
- Conducted Discussion and Office Hours sessions to guide students to solve worksheets and practice problems.
- CGPA - 3.95/4.0

Indian Institute of Technology, Tirupati,
B.Tech in Computer Science

Aug 2017 – Jun 2021

- CGPA - 8.35/10.

📖 PUBLICATIONS

Benchmarking Adversarial Robustness of Compressed Deep Learning Models, 2nd advML Frontiers Workshop, ICML 2023
21 Jun 2023

Built ML pipelines for benchmarking Adversarial Robustness and compression using Tensorflow, Intel's NNCF, and ART-IBM.

📁 PROJECTS

Social Technical Congruence for Apache Software Foundation, UC Davis 📄

Sep 2021 – Dec 2021

- **Skills:** Empirical SE, Data Mining, Python, Git, ML.
- Designed an ML 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.
- Redesigned 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 Engineer, Sailpoint Technologies

Jun 2023 – present

- Enhancing the SaaS products and MLops platform.
- Building production-ready ML pipelines via Sagemaker, Airflow, Grafana, and AWS.

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.
- Bagged Top 1% in Jee Advanced Rank and Jee Mains.
- All India Rank 9 in NSTSE 2013 (Science Olympiad).
- 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 | Raspberry pi | Embedded Devices