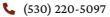
Brijesh Vora

Austin, TX brijesh.vora12@Gmail.com













- Building ML platform at Sailpoint Technologies.
- My Research interests are ML, Security, and Systems.
- Strong experience in Machine Learning, Python, Docker, AWS (Sagemaker, S3, ECR, Cloudwatch), Grafana, Airflow, Snowflake, Feature stores, CI/CD (Jenkins).

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Professional Experience

Jun 2023 – present Austin, TX

Software Engineer (MLOps), Sailpoint Technologies

- Implemented monitoring and alerting systems in Grafana to track model performance metrics, detect anomalies, and trigger retraining workflows as necessary, ensuring models remain accurate and up-to-date in dynamic environments.
- Developed robust pipelines for model training, testing, and deployment, utilizing tools such as Sagemaker, Docker, and Apache Airflow to automate the end-to-end ML workflow.
- Collaborated closely with Data Scientist to streamline model development processes, facilitating rapid iteration and experimentation while maintaining version control and reproducibility.
- Optimized infrastructure resources and scalability to support high-throughput model inference, leveraging AWS to achieve cost-effective and reliable deployments.

Jun 2022 – Sep 2022

Davis, CA

Software Engineering Intern, Ennetix, Inc.

- 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).

May 2020 – Jul 2020 India

Research Intern, IIT Tirupati

- 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.

Education

Sep 2021 - Jun 2023

University of California, Davis, MS in Computer Science

- 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

Aug 2017 – Jun 2021

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



Publications

Private Aggregate Queries to Untrusted Databases, Network and Distributed System Security Symposium (NDSS), S. M. Hafiz, C. Gupta, W. Wnuck, B. Vora, and C-N. Nee Chuah □

Benchmarking Adversarial Robustness of Compressed Deep Learning Models,

2nd advML Frontiers Workshop, ICML 2023, B. Vora, K. Patwari, S. M. Hafiz, Z. Shafiq, and C-N. Chuah 🛭

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

Projects

Sep 2021 - Dec 2021

Social Technical Congruence for Apache Software Foundation, UC Davis

- 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.

Aug 2020 - Jun 2021

Workflow Management System, IIT tirupati

- Skills: Python, Flask, ISON, 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.

Sep 2019 - Oct 2020

Categorizing Lambda Expressions in Python, IIT Tirupati

- Skills: Software Engineering, Machine Learning, Python
- Developed an ML model to automate the task of categorizing the lambda expressions into 13 categories for 760 Github repositories.

Aug 2020 - Aug 2020

Detecting VPN/Proxy, Smart Indian Hackathon

- 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.
- \bullet Implemented honeypot for detecting real-time attacks from VPN/Proxy enabled users.

Mar 2019 - Apr 2019

Mips Assembler, IIT Tirupati

- **Skills:** Assembly, C/C++, Data Structures, Computer Architecture.
- Built a MIPS Assembler in C++ which can convert 48 instructions to object files.

Leadership

May 2019 – Jul 2020 India

Internship Representative, IIT Tirupati

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



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.