Brijesh Vora

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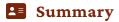
Ⓒ Coursera   🔗 Website

📇 Summary

- 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).

💼 Professional Experience

Jul 2024 – present
Austin, US

Machine Learning Engineer III, *Sailpoint Technologies*

Jun 2023 – Jun 2024
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, 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.

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.
- 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   **Internship Representative,** *IIT Tirupati*
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.

📑 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.