Shruti Vasave

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EDUCATION

- **Syracuse University** — Syracuse, NY
  Master of Science - Computer Science — *Aug 2023 - May 2025*
  Courses: *Intro to AI, Computer Architecture, Assured Programming and Formal Methods*

EXPERIENCE

- **LTIMindtree for OneMain Financial** — Pune
  Software Engineer — *Jul 2021 - Jul 2023*
  - Spearheaded the delivery of high-quality AS400 code in ILE COBOL and CL for monthly releases, significantly enhancing the iSeries application's functionality; provided production support and maintenance.
  - Instrumental in implementing several optimizing procedures that reduced application latency by 25%.
  - Redesigned targeted areas of a IBM DB2 database system which resulted in a 15% reduced downtime.
  - Redefined team's established documentation practices and crafted streamlined documentation practices with a focus on time-efficiency and impactful clarity.

- **Tata Motors** — Pimpri Chinchwad
  ML Intern — *Jun 2020 - Dec 2020*
  - Conceived, developed and deployed a Poka Yoke solution that prevents incorrect button placement on heavy vehicle dashboards with a 99% success rate.
  - Developed a Python-based localization script and scaled it across a fleet of vehicles.
  - Saved an estimated $19,440/year in labour costs by completely eliminating manual checking of dashboard.

PROJECTS

- **Fire Detection using Computer Vision**
  Engineered a lightweight solution for fire detection with specific focus on fires in outdoor spaces using HAAR cascade classifiers, achieving a 99.6% success rate.

- **Quiz Portal for LTI for internal training evaluation**
  Designed a secure Web based application, powered by .NET for LTIMindtree empowering seamless creation, customization, and evaluation of quizzes for internal training purposes. Awarded "Best Project Team" out of all the fresher projects for the Financial Year 2020.

- **Territory-wise social media observer**
  Developed a robust Web Application using the Java Swing framework to deploy features like hate speech detection, trend analysis, sentiments analysis of tweets sorted by region.

- **Deep Learning in Games**
  Trained and fine-tuned an AI agent to tackle a variety of flash games employing Tensorflow and OpenAI's Gym and Universe.

PUBLICATIONS

- **'Foreign Object Detection on Assembly Line' published in Springer Series - Lecture Notes on Data Engineering and Communications Technologies** A comparative study of two approaches for the detection of foreign objects in an industrial assembly line setting, the paper proposes a complete solution from the findings. The methodologies are vision based and can be used for processing objects conveyed at a constant velocity. The novelty of proposed solution is the possible full automation of the assembly line with low latency and high performance and with a small training data set. (Sept 2022)

LEADERSHIP AND ACTIVITIES

- **Content and Social Media Secretary at VIT Students' Council** - Drove a remarkable 30% surge in Tech Fest footfall
- **Founder and Club Lead at The VIT Literary Club** - Fostered a diverse reading community of over 100+ students
- **Technical Writer at Trident Labs** - Created comprehensive and high-quality documentation for an Underwater Autonomous Vehicle project

SKILLS SUMMARY

- **Languages**   JAVA, Python, C/C++, SQL, JavaScript, HTML/CSS, COBOL
- **Frameworks**   Scikit, NLTK, TensorFlow, Keras, .NET, Django, NodeJS, Java Swing, Bootstrap
- **Tools**   Kubernetes, Docker, GIT, MySQL
- **Platforms**   Linux, Web, Windows, AS400, Arduino, Raspberry, AWS, GCP, Azure

VOLUNTEER EXPERIENCE

- **TA at Utkarsh - VIT Social Welfare and Development Club** — Pune
  Devoted time to support understaffed government-run Urdu & Marathi schools — *Aug 2018 - Feb 2019*

- **Scribe at Drushti - VIT Social Welfare and Development Club** — Pune
  Enabled visually impaired undergraduate students to thrive academically by acting as a Scribe — *Aug 2018 - Feb 2019*