

YASH JAKHOTIYA

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EDUCATION

AUGUST 2021 – PRESENT

COMPUTER SCIENCE – MS, GEORGIA
INSTITUTE OF TECHNOLOGY, ATLANTA

- GPA – **4.0/4.0**.
- Specializing in **machine learning** and **robotics**.

AUGUST 2016 - JUNE 2020

COMPUTER ENGINEERING – B. TECH,
COLLEGE OF ENGINEERING, PUNE

- CGPA – **9.2/10**.
- Minor in Financial Engineering.

WORK EXPERIENCE

NOVEMBER 2021 – PRESENT

GRADUATE STUDENT RESEARCHER, RIPL LAB, GEORGIA TECH

- Pursuing **research work** with Prof. Zsolt Kira on **continual learning**, **domain adaptation** and **industrial deployment** of large pre-trained machine learning models.
- Lab website - <https://www.cc.gatech.edu/~zk15/>

JULY 2020 – JULY 2021

MEMBER TECHNICAL – QUANT SYSTEMS, D.E. SHAW, HYDERABAD

- Directly managed the firm's on-prem 3000 Linux hosts responsible for compute intensive trading jobs.
- **Deployed** a **role-based access control automation service** for internal ELK (Elastic) stack.
- One of the 5 **ELK admins** responsible for managing ELK onboarding and engineering.
- Integral part of a small team driving **firm-wide Kubernetes setup**.
- Wrote base OCI images with integrated support for infrastructural pieces like KRB5 auth.

JUNE 2020 – AUGUST 2020

GOOGLE SUMMER OF CODE STUDENT, KUBEFLOW, GOOGLE CLOUD PLATFORM

- **Kubeflow** helps machine learning practitioners **deploy workflows** on Kubernetes in a scalable manner.
- Demonstrated efficient use of all 6 components of Kubeflow with **ml pipelines** in well-crafted notebooks.
- Enabled new **customer onboarding**, bringing in **more adoption** of the product.
- Details of the project can be found at - <https://yashjakhotiya.github.io/blog/>

MAY 2019 – JULY 2019

SUMMER INTERN, D. E. SHAW, HYDERABAD

- As a summer 2019 intern, **automated** internal infrastructural alert assignments using **machine learning**, with features derived from **natural language understanding** of alert descriptions.
- **Pushed to production** before end of the internship, reducing the workload of an entire team by **86%**.

MAY 2018 – JULY 2018

RESEARCH INTERN, INDIAN INSTITUTE OF SCIENCE, BANGALORE

- Research and development work in **deep learning** for the institute's Video Analytics Lab.
- The project focused on **sequence-to-sequence modeling** with **generative adversarial networks**.
- Also systematized their **ml workflow**. The work led to a **research paper** after the end of the internship.
- Lab website – <http://val.serc.iisc.ernet.in/valweb/>

SELECTED PROJECT WORK

JANUARY 2019 – MAY 2020

COMPUTER VISION, TIME SERIES MODELING, AND ADVERSARIAL ML

- Showed vulnerabilities of [arXiv:1909.06865v1](https://arxiv.org/abs/1909.06865v1) to **adversarial attacks** with a **misclassification rate** of **23.9%**.
- Trained a **CNN Autoencoder** and a **two-layered LSTM** to detect anomalies in the [UCSD Anomaly Dataset](#).
- Modeled **time series data** with Credit Suisse India and achieved an **MSE of 10^{-3}** on a downstream stock movement prediction task.
- Achieved an **intersection over union (IoU)** of **0.8** in the [Flipkart GRiD - 2019](#) object detection contest.
- All project sources can be found at - <https://github.com/yashjakhotiya/>.

APRIL 2017 – MAY 2018

ONBOARD COMPUTER SUBSYSTEM, COEP'S 2ND STUDENT SATELLITE INITIATIVE

- Created a **BCH Error Correction** module for onboard memory to counter bit flips caused by space radiation.
- The team's last satellite was launched by **ISRO** in June 2016, and it successfully completed its objective.
- Project website - <https://www.coep.org.in/csat/>

SEPTEMBER 2017 – NOVEMBER 2017

SUPPORT FOR CTAGS IN A SMALL OPEN SOURCE EDITOR

- Extended bric, a small **open-source** editor with a tags-based code navigation functionality.
- The implementation uses **UNIX's Exuberant Ctags** and was **merged** into the editor source code.
- All my contributions to the editor can be found at [shnupta/bric](https://github.com/shnupta/bric).

LEADERSHIP

SEPTEMBER 2019 – AUGUST 2020

INITIATING SECRETARY, ASSOCIATION OF STUDENTS OF CE AND IT, COEP

- **Took an initiative** to create a common **platform** for all students to interact and seek help from each other.
- **Organized** talks, contests and tutorials on competitive coding and open-source software.
- More details can be found at - <https://www.coep.org.in/asci/events.html>.

RELEVANT COURSEWORK

- **Georgia Tech** - Machine Learning with Limited Supervision research course with Prof. Judy Hoffman, Deep Reinforcement Learning for Intelligent Control, Natural Language Processing, Computer Vision, and Deep Learning.
- **College of Engineering Pune** - **Perfect grade** in Algorithms, Computer Networks, Computer Organization, Databases, Data Science, Information Retrieval, Linear Algebra, Probability and Statistics, Theory of Computing, and other courses.
- **Online coursework** includes Stanford's CS231n and CS224n (YouTube), and [Structuring Machine Learning Projects](#), [Improving Deep Neural Networks](#) and [Neural Networks and Deep Learning](#) (Coursera).

PROFESSIONAL SKILLS

- **Python** (PyTorch, TensorFlow, Keras, pandas, scikit-learn, NumPy, SciPy, Matplotlib, Seaborn, BeautifulSoup, Flask), **Puppet**, **Linux Shell Scripting**, **SQL**, **Matlab**, **C++** and **C**.
- Jupyter, Kubernetes, Docker, ELK, Prometheus, Grafana, Jenkins, Git, Phabricator and Confluence.
- Strong hold over **Machine Learning** (Computer Vision, Natural Language Understanding, Multimodal ML, and Adversarial Robustness), **Data Structures**, **Algorithms**, and **System Engineering** concepts.