

Shivaram Yellamilli

shivaramyellamilli@gmail.com | (408) 401 - 6524
<https://syellamilli.github.io/>

EDUCATION

GEORGIA TECH

MS IN COMPUTER SCIENCE

Conc. in Machine Learning

January 2021 - Present

GPA: 3.75/4.00

UC BERKELEY

BA IN APPLIED MATHEMATICS

Conc. in Quantum Computing

2015 - 2019

GPA: 3.66/4.00

SKILLS

PROGRAMMING

Python, SQL

COMPUTER

AWS, Git, Jupyter, Docker, \LaTeX
Databricks

LIBRARIES

Sklearn, Numpy, Scipy, Pandas,
Matplotlib, Seaborn, Pytorch
Tensorflow, Keras

COURSEWORK

DATA SCIENCE

Data Science with Applications
Machine Learning Fundamentals*
Reinforcement Learning
SQL Bootcamp*
Knowledge Based AI
Data Structures & Algorithms
ML for Trading
AI for Robotics

MATHEMATICS

Numerical Analysis
Real & Complex Analysis
Abstract Algebra
Linear Algebra
Combinatorial Topology
Multivariable Calculus

SOCIAL JUSTICE

Civil Rights and Movements
Morality and Social Justice
K-8 Teaching in STEM Classrooms

PHYSICS

Quantum Information Science
Quantum Mechanics (I & II)

EXPERIENCE

PALO ALTO INSIGHT | REMOTE

April 2021 - Present | Junior Data Scientist

January 2021 - March 2021 | Data Science Intern

- Developing customized ML solutions for clients in varied domains including time series analysis, object detection, and recommendation systems
- Conducting exploratory analysis and building solutions around findings
- Constructing data pipelines for multiple projects

FEATHER HEALTH | SARATOGA, CA

July 2020 - August 2020 | Data Science Intern

- Performed in-depth exploratory analysis of time series feature detection
- Determined benchmarking protocol and developed associated python package

AURANSA | PALO ALTO, CA

January 2020 - June 2020 | Data Science Intern

- Developed statistical analysis pipeline which is now being used for quality assurance analysis and knowledge discovery
- Benchmarked, debugged, and improved performance of core engine

ASPIRE EDUCATION | OAKLAND, CA

October 2017 - December 2019 | Academic Tutor

- Tutored students from disadvantaged backgrounds in comp. science and math

RESEARCH AND PROJECTS

FISH IDENTIFICATION | SOLO DEVELOPER

April 2022 - July 2022 | Python, Pytorch, Selenium, Jupyter

- Developed CNN model capable of identifying the most common Hawaiian fish species with 80%+ accuracy and 90%+top 3 accuracy
- Scraped google images using Selenium and filtered for relevant results utilizing a different custom CNN

FORESTRY POLICY ANALYSIS | LDA LEAD

January 2019 - August 2019 | UC Berkeley

- Built product to analyze forestry documents for World Resources Institute
- Led development of Topic Modeling aspect (using Latent Dirichlet Allocation)

MAGNETIC THIN FILMS | SMART FELLOW AND RESEARCH ASSISTANT

May 2017 - May 2019 | Lab of Prof. Hellman at UC Berkeley

- Independently investigated magnetic properties of ultra-thin amorphous films
- Developed code library for lab, streamlining data analysis process

PRESENTATIONS & PUBLICATIONS

SOCIAL IMPACT AT KDD CONFERENCE | POSTER PRESENTER

KDD 2019 | Forestry Policy Analysis

URANUS EVOLUTION MODELS WITH SIMPLE THERMAL

BOUNDARY LAYERS | COAUTHOR

September 2016 | Icarus Vol. 275, Pages 107 - 116

HOBBIES

SCUBA DIVING | PADI RESCUE DIVER

- Founded and presided over UC Berkeley SCUBA club

PHOTOGRAPHY | NATURE & PORTRAIT PHOTOGRAPHY

* signifies a MOOC