YASH LAMBA

Software Developer

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🐙 github.com/yashlamba

EXPERIENCE

Mentor - Google Summer of Code'20
Python Software Foundation, Remote

📅 APRIL 2020 - SEPTEMBER 2020

- Mentoring student developers for Intel's DFFML project.
- Projects involve adding NLP and Computer Vision support to DFFML.
- Actively involved in brainstorming, planning, and code reviewing.

Project Administrator - Girlscript Summer of Code'20
Girlscript Foundation, Remote

📅 MARCH 2020 - MAY 2020

- Personal project Simulate selected for open source program GSSoC.
- Mentored 70+ students on Flutter, Dart and Open source.
- Helped beginners with initial contributions and code reviews.

Student Developer - Google Summer of Code'19
Python Software Foundation, Remote

📅 MAY 2019 - AUGUST 2019

- Contributed to Intel's DFFML (Dataflow Facilitator for Machine Learning) project.
- Added machine learning models from scratch.
- Wrapped models from scikit learn and implemented dynamic config definition.

Research and Development Intern
Addmath Research Centre Pvt. Ltd., Delhi, India

📅 DECEMBER 2018 - FEBRUARY 2019

- Assisted in teaching school children mathematics in an interactive way.
- Based on teaching experience, built tools and software to assist teaching.

PROJECTS

Simulate (Flutter and Dart)
🔗 yashlamba.com/simulate   🐙 github.com/cod-ed/simulate

Collection of simulations and visualizations in a cross platform app based on Flutter. Available to use as a web app. Supported on iOS, Android and Web.

Road Fighter AI (Python, Artificial Intelligence, Neuroevolution, Deep Learning)
🔗 yashlamba.com/RoadFighterAI   🐙 github.com/yashlamba/RoadFighterAI

Remade popular NES game Road Fighter using pygame. Created AI agents using multiple reinforcement learning techniques like Deep Q learning and NEAT.

Handwrite (Python, Typography, Image Processing)
🔗 yashlamba.com/handwrite   🐙 github.com/cod-ed/handwrite

Handwrite generates a custom font based on your handwriting sample, which can easily be used in text editors and word processors.

EDUCATION

Cluster Innovation Centre, University of Delhi
Bachelor's of Technology in Information Technology
and Mathematical Innovations (Minor: Systems Biology)

🎓 2018 - 2022 (Expected)   Score: 80.8%

Prabhu Dayal Public School
High School - PCM with Computer Science

🎓 GRADUATED MAY 2018   Class X: 10.0 CGPA   Class XII: 89.8%

SKILLS

- **Programming Languages:** Python, C++, Javascript, Dart.
- **Frameworks and Libraries:** Tensorflow, Pytorch, Flutter, React, Scikit, OpenCV.
- **Interests:** Machine Learning, Object Oriented Programming, Computer Vision, Cross Platform Development, Education and Teaching.

ACHIEVEMENTS

- 1st runner up, Smart India Hackathon 2019; Worked on a problem statement regarding GDPR rules in travel sites by Amadeus Software Labs.
- Received scholarship from Udacity-KPIT for completing term-1 of Self Driving Car Nanodegree.
- Selected as Google Code In'19 mentor for Tensorflow.

Miscellaneous (Course and Mini projects)
Varied stacks

- Python GUI Development: Developed few mini simulations and games using Python tkinter.
- BoxIt: Multiplayer dot connecting game made using Flutter and Firebase.
- COVID-19 Time Series Analysis with Deep Learning: Implemented multiple time series predicting deep learning architectures for COVID-19 analysis.
- **Research Publication:** Garg, S., Anand, A., Lamba, Y. et al. Molecular docking analysis of selected phytochemicals against SARS-CoV-2 Mpro receptor. Vegetos 33, 766–781 (2020).
- DFFML SCIKIT: Authored the dffml scikit plugin under GSoC'19 along with other contributions.