BAVESH BALAJI

Website: https://bavesh-b.github.io/ Email: bavesh.balaji@gmail.com

Education

Indian Institute of Information Technology, Design and Manufacturing

Bachelor of Technology in Computer Science

Supervisor: Dr MasilamaniCumulative GPA: 9.01/10

P.S Senior Secondary School

Higher Secondary School

- Higher Secondary Percentage: 94.2%

Kancheepuram, India Jul 2018 - Present

> Chennai, India Jul 2007 - May 2018

Work Experience

Quantrium Tech

Computer Vision - Industrial Intern

Chennai, India May 2021 - Present

- Performed object detection on images from camera-trap using Microsoft's MegaDetector
- Worked in Google Cloud Platform and built an efficientnet-b5 based classifier to classify over 200 species from camera traps videos and increased the accuracy from 85% to 89%
- Worked on tracking of fishes from highly occluded and low-frame rate videos.
- Currently working on classification and segmentation of coral reefs from images.
- Also working on Tensorflow Great Barrier Reef competition for detection of COTS.

Indian Institute of Technology

Roorkee, India Nov 2021 - Present

Computer Vision - Research Intern

- Supervised by Dr Partha Pratim Roy
- Working on object detection on aerial images using synthetic data
- Using Virtual Reality and Computer Vision techniques to generate synthetic data and perform object detection on them.

Skills and Interests

• Languages: Python, C, C++

• Frameworks: PyTorch, MatplotLib, Numpy, Scikit-Learn, Pandas

• Interests: Machine Learning, Computer Vision

Course work

- Data Structures and Algorithms
- Pattern Recognition
- Discrete Mathematics
- Advanced Data Structures and Algorithms
- Calculus
- Operating Systems
- Database Systems
- Linear Algebra

- Computational Engineering
- Deep Learning Specialization
- Design and Analysis of Algortihms
- Probability Theory
- Differential Equations
- Computer Architecture
- Human Computer Interaction

Projects

- - Used machine learning to build two statistical models, one for classifying network traffic as DoH vs non-DoH, and the other for classifying benign DoH vs Malicious DoH
- Mask Detection | Computer Vision, Deep Learning 🕥

May 2021

- Implemented a detector that detects whether people are wearing masks or not.
- Used YOLOv4 darknet for object detection and achieved an MAP of 83.86%

Extra Curricular

• Secured rank 222 in ACM-ICPC Gwalior Pune regionals and rank 342 in Amritapuri Regional	ls Jul 2021
Secured ranks of 863 and 742 in Google Kickstart 2021	Mar 2021 - Nov 2021
 Qualified for round 1 and secured a rank of 2027 in Google CodeJam 2021 	Mar 2021 - Jun 2021
• Expert in Codeforces, max rating of 1644.(top 4% in India)	Nov 2019 - Apr 2021
Max rating of 1383 in AtCoder(top 10% in India)	Feb 2019
• 5-star in CodeChef, max rating of 2049.(top 10% in World)	Feb 2019
• Won special mention in Start-up Weekend Hackathon conducted by CEG Guindy, Chennai	Feb 2019
• Got selected as one of the top 80 ideas in EHIPASSIKO out of 200 teams, an intra-college Ha	ackathon Nov 2019
 Won Second Place in CODERA conducted by SSN College of Engineering 	Sep 2021
 Qualified for round 2 in Codechef Snackdown'21 	Sep 2021
Mentoring college students on how to start competitive programming	Aug 2021 - Present
Member of school cricket team	Jul 2013 - Apr 2018
Have a trust that aims towards providing food, education and healthcare for the poor	Sep 2021 - Present
Was Part of the Disciplinary Committee of our university	Jul 2018-Apr 2019