Atmadeep Arya

Masters in Computer Sciences with focus on Computer Vision

Dedicated to field of autonomous machines and computer vision.

aatmadeepaarya@gmail.com

919611948767

Bidar, India

linkedin.com/in/atmadeep-arya-2178a313b

github.com/atmadeep

EDUCATION

Integrated M.Tech in computer science
Central University of Karnataka
07/2015 - 07/2020 *8.53*

WORK EXPERIENCE

Machine Learning Engineer
Bitsilica Pvt Ltd
02/2021 - 04/2021 *Hyderabd, Telangana*
VLSI and Edge computing startup

Achievements/Tasks

- Worked on Applications related to customer face detection and matching using Dlib, opencv and django. Converted the app from flask to django.
- Worked on traffic management solution using opencv and parallel processing concepts in python.

Contact: Mohd. M. Babji - linkedin.com/in/mdbabji

IEEE Creative Learning chair
IEEE Student branch, Central University of Karnataka
01/2018 - 12/2020 *Kalaburagi, Karnataka*

Achievements/Tasks

- Conducted various workshops and seminars on topics related to meta learning and interdisciplinary domains

Contact: Sneha Chandran ,SB executive chair, CUK

Image processing Intern
Avian Aerospace Pvt Ltd
12/2017 - 03/2018 *Bangalore, Karnataka*

Achievements/Tasks

- Worked on image processing using opencv 3.x and python to extract information related to potholes on various terrains
- Wrote an algorithm for algae detection for underwater ROV

Candidate Volunteer
Harbortech Pvt Ltd, Mumbai
10/2016

Achievements/Tasks

- Volunteered for workshop on android app development and aerial robotics workshop
- Was selected for national level competition held at IIT Kharagpur

Candidate Volunteer
Harbortech Pvt Ltd, Mumbai
10/2017

Achievements/Tasks

- Volunteered for workshop on android app development and aerial robotics workshop
- Was selected for national level competition held at IIT Bombay

SKILLS

Javascript | Django 3 | Flask | C++ 14 | Python 3.x | Tensorflow 2.x | OpenCV 4.x | Linux | LaTeX | Jupyter | Git | Github

PERSONAL AND ACADEMIC PROJECTS

Prototype of a research quad-copter (04/2020 - 10/2020)

- Selected for IEEE SHTPF (financial grant) for year 2020. Proposed a hardware and software stack useful for research in various domains related to MAVs

Master's thesis: Deep learning based navigation for aerial robots (08/2019 - 04/2020)

- Built a CNN with < 1M trainable parameters for MAVs equipped with an onboard SBC.

Inertial methods for navigation of aerial robots (05/2019 - 07/2019)

- Did a study on geometric vision navigation algorithms coupled with inertial sensor values suitable for indoor navigation for MAVs

Bachelor's thesis: 3D vision based methods for navigation of aerial robots. (01/2019 - 04/2019)

- Did a study geometric vision based navigation method suitable for indoor environments for MAVs.

Surveillance copter for campus safety (05/2018 - 07/2018)

- Trained YOLOv3 on custom vehicle classes from Indian vehicle domain for campus traffic detection

ORGANIZATIONS

Avian Aerospace (12/2017 - 02/2018)
Computer vision and robotics intern.

CERTIFICATES

Certificate Name

LANGUAGES

Hindi
Full Professional Proficiency

English
Full Professional Proficiency

INTERESTS

Autonomous aerial robots | Computer vision | Deep learning | Machine learning