SHREYAS KALVANKAR

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EXPERIENCE

Summer Intern

FinIQ Consulting India Pvt. Ltd.

May 2020 - June 2020 Nashik, India

- Set up an online platform for Forex trading and essential services such as market news, chatbot, etc using AngularJS
- Created a python module for stress testing CPU and memory with variable load

TECHNICAL SKILLS

C/C++, Python, Java
Deep Learning
Computer Vision
Machine Learning
Databases
Robotics
Web Development

SOFTWARE SKILLS

- **Python Libraries** : Tensorflow, keras, pandas, numpy, matplotlib
- **C++** : Generic programming, Standard Template Libraries
- **Deep Learning** : Image recognition and classification, time series analysis, Natural Language Processing
- **Tools** : Git, Octave
- **Embedded Software Programming** : Arduino, Raspberry Pi, Teensy

POSITIONS OF RESPONSIBILITY

Software Developer

Team Vector, ABU Robocon 2019

August 2018 - April 2019

- Helped build and develop a code for an autonomous quadruped robot

Mentor

Team Vector, ABU Robocon 2020

August 2019 - April 2020

- Helped and guided junior members of the team in building a omni-wheeled robot

STRENGTHS

Curious Hardworking Adaptable Communication skills

EDUCATION

B.E (Computer Engineering)

K.K. Wagh Institute of Engineering Education and Research

2017-2021 Nashik

- CGPA: 9.54/10

Higher Secondary Certificate

H.P.T Arts and R.Y.K Science College

2017 Nashik

- 87.07%

Secondary School Certificate

Boys' Town Public School

2015 Nashik

- 94.4%

PROJECTS & RESEARCH

THE GALAXY ZOO PROJECT

- Studied galaxy morphology classification and CNN architectures
- Developed a CNN architecture for the vote fraction predictions of 37 features in the galaxy zoo decision tree
- Developed a network for classification of galaxies into seven morphologies

THE EINSTEINPY PROJECT

- An open source community python package for general relativity
- **Contributions**:
  - Addition of Reissner–Nordström metric: a static solution to the Einstein-Maxwell field equations (*PR: #462 Issue: #309*)
  - Correction in the Kerr-Newman and Kerr metrics
  - Added calculations of event horizon and ergosphere for a Kerr-Newman blackhole (*PR: #472 Issue: #109*)

PUBLICATIONS

Journal Articles

- Bapat, Shreyas et al. (2020). *EinsteinPy: A Community Python Package for General Relativity*. arXiv: 2005.11288 [gr-qc].
- Kalvankar, Shreyas, Hrushikesh Pandit, and Pranav Parwate (2020). *Galaxy Morphology Classification using EfficientNet Architectures*. arXiv: 2008.13611 [cs.CV].