Shreyas Havaldar

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Education

Indian Institute of Technology Hyderabad   *CGPA:* **9.74/10.00**
BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING   *August 2018 - Present*

Related Coursework: Artificial Intelligence, Random Processes, Operating Systems, Theory of Computation, Compilers, Principles of Programming Languages, Linear Algebra, Probability, Transform Techniques, Computer Architecture, Data Structures and Algorithms, Discrete Mathematics, Digital System Design, Digital Signal Processing

SPPAC Junior College, Nashik   *HSC Percentage:* **90.00**
HIGH SCHOOL   *May 2018*

First Rank in College

Fravashi Academy, Nashik   *ICSE Percentage:* **98.40**
SECONDARY SCHOOL   *May 2016*

First Rank in District

Skills

Languages   Python, Java, JavaScript, Haskell, C++, C, Prolog, HTML, CSS, Eiffel
Software and Tools PyTorch, TensorFlow, AWS, Node.js(Express), LaTeX, MATLAB, Git, Bootstrap, Pug, Jekyll

Additional Coursework Learning From Data by Abu Mostafa, Caltech.
Linear Algebra by Gilbert Strang, MIT-OCW
LinuxFoundationX: LFS101x Introduction to Linux

Interests

- **Machine Learning, Deep Learning and Artificial Intelligence**

- **Web and Android Development**

Research Experience

VarMixup: Exploiting the Latent Space for Robust Training and Inference   *Hyderabad, Telangana*
UNDER DR. VINEETH N. BALASUBRAMANIAN   *February 2020 - March 2020*

- Using VAEs along with mixup to train adversarially robust models.
- Came up with new sampling techniques - varMix and adv-varMix to better sample mixup images using the underlying latent manifold

Work Experience

Japan Infra Waymark Corp.   *Tokyo, Japan*
MACHINE LEARNING INTERN   *May 2020 -*

- Researched and implemented some of the state of the art **semantic segmentation** models including **DeepLabV3** and **GSCNN** to evaluate on our custom binary class dataset derived from aerial imagery.
- Studied possible scope for improvements in these models to provide more importance to local features.
- Developed viable improvements for commercial use.
- Learnt various technical skills and use of tools like AWS SageMaker and imbibed a work ethic in a new and challenging experience of remote work.

Computer Center, IIT Hyderabad   *Hyderabad, Telangana*
CHIEF DEVELOPER   *October 2019 - January 2020*
- Planned and executed the redesign and development of **official website of IIT Hyderabad**.
- Developed a static site using Jekyll to improve speed and prevent malicious attacks.

Meet AI Private Limited   *Hyderabad, Telangana*
DEVELOPMENT INTERN   *December 2018-January 2019*
- Assisted in the development of the **Knoway Android Application.** The goal of the application was to help connect people with common interests, primarily factoring proximity.

Projects

Self-Projects   *Hyderabad, Telangana*
UNDERTAKEN BY ME AS A PART OF LEARNING.
- Implemented CNNs and GCNs using PyTorch library.
- Implemented Sentiment Analysis on Stanford IMDb database.
- Implemented basic classifiers and neural networks from scratch.
- Developed a Library emulating website using Node.js backend and MongoDB.

Chronologize   *Hyderabad, Telangana*
TEAM MEMBER   *January 2019*
- **Goal**: Working on an Android Application that keeps track of your ongoing courses and informs you about the upcoming lectures. The app also measures the time that you spend on your phone during lectures.
- This project was undertaken as **Independent Project Course** in the 1st semester.

Achievements

- Achieved an All India Rank of **651** among 0.15 million candidates in the Joint Entrance Examination Advanced 2018 conducted by the Joint Admission Board.

- Achieved an All India Rank of **464** among 1.5 million candidates in the Joint Entrance Examination Main 2018 conducted by the Central Board of Secondary Education

- Awarded the prestigious **KVPY Fellowship** (Kishore Vaigyanik Protsahan Yojana), instituted by the Department of Science and Technology, Government of India in stream SX.

- Awarded **Times Spark Scholarship** by Times of India Group.

Positions Of Responsibility

- Founding Core: **Epoch: The ML Club**

- Core: **Infero: Algorithms and Coding Club**

- Core: **Lambda: The DevClub**

- Co-ordinator: **Quiz Club, LitSoc IITH**

- Co-ordinator: **Informals, Zozimus: The Literary Fest**

- Core: **RangDeManch: The Drama Club**