

Himanshu Pradeep Aswani Electrical Engineering Indian Institute of Technology, Bombay 160110028

Dual Degree (B.Tech. + M.Tech.)

Gender: Male DOB: 27-05-1998

| Examination | University | Institute | Year CPI / % |
|-------------|------------|------------|--------------|
| Graduation | IIT Bombay | IIT Bombay | 2021 |

SCHOLASTIC ACHIEVEMENTS

| • Completed a Semester Exchange Program at National University of Singapore, Singapore | 2019 | |
|--|------|--|
| • Pursuing a Minor in Computer Science and Engineering | | |
| • Awarded A+ grade for exceptional academic performance in Matrix Computations at NUS | 2019 | |
| • Awarded Branch Change to Electrical Engineering based on exceptional academic performance | | |
| • Secured 98.42 percentile in JEE Advanced and 99.90 percentile in JEE Main | | |
| • Stood First in High School in 12th standard Maharashtra HSC board examinations with 94.00% | | |
| • Stood First in School in 10th standard ICSE board examinations with 96.60% | | |
| • Certified as Abacus GrandMaster, ranked International Rank 5 in Level 8 held in Malaysia | 2009 | |

PROFESSIONAL EXPERIENCE

Qualcomm Software Engineer

May 2019 - July 2019

Internship

- Conducted research on the status and techniques of Image Quality Improvement using day-to-day cameras
- Executed a number of model evaluations related to image quality improvement on the AWS Cloud
- Worked primarily in **TensorFlow** and **Keras** and dealt with **Deep Convolutional Neural Networks** and explored possible uses of **Generative Adversarial Networks** and **AutoEncoders** for the same

Web Development Engineer

May 2018 - June 2018

BSBE Department, IIT Bombay

- The project involved writing code of about 1500+ lines for an online search database
- Developed the back-end of the website in MySQL, front-end in CSS, HTML and PHP, hosted by Apache

RESEARCH EXPERIENCE

Functional Evolution In Neural Networks For Multi-Task Learning | M.Tech Thesis

Present

Guide: Prof. Amit Sethi

- Explored techniques for transferring learning to develop multiple task capabilities in a single neural network
- Working on devising an algorithm to guide neural network augmentation with function specific modules

Modular Neural Networks

January 2020 - June 2020

Guide: Prof. Amit Sethi, Course: Supervised Research Exposition

- Academic Project
- Conducted an extensive literature survey that explores the notion of functional modules in neural networks
- Implemented papers that employ spectral graph clustering techniques to identify structural clusters

POSITIONS OF RESPONSIBILITY

Graduate Teaching Assistant - Advanced Topics In Machine Learning

August 2020 - December 2020

• Responsible for evaluation of assignments, resolving doubts and conducting exams for 100+ students

Interview Coordinator, Institute Placement Team

December 2018

Part of Core Execution Team for Campus Placements

- Coordinated with a team of 250+ members for interviews of 1600+ students
- Assisted in conducting Pre-Placement Talks and Tests for 15+ firms

EXTRACURRICULAR ACHIEVEMENTS

| • Proficient in PyTorch, TensorFlow , MATLAB, Python, HTML, Java, C++, SQL, PHP, CSS, LATEX | | |
|--|---------|--|
| • Completed the online course Introduction to Big Data by UC, San Diego | | |
| • Stood Second in Stock Pitch, a virtual stock market trading competition, organised by E-Cell | 2019 | |
| • Wrote two course reviews to guide incoming students to the Computer Science Minor program | 2018,19 | |
| • Completed the online course Spanish Vocabulary (Meeting People) by UC Davis | | |
| • Member of Gold winning team in Institute Football League, conducted by IIT Bombay Sports | 2018 | |
| • Awarded City Topper in the Bournvita Quiz and represented the city, Pune, at the National Level | 2011 | |
| • Passed the International Standard of Abacus Mental Arithmetic Proficiency Examination | 2009 | |

• Interests mainly comprise watching and playing football and reading fiction