PURVA TENDULKAR

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EDUCATION

Georgia Institute of Technology, *Georgia, USA* — Aug '18 - Present
M.S. in Computer Science, Machine Learning Specialization

College of Engineering, Pune, *Maharashtra, India* — July '14 - July '18
B.Tech. in Computer Engineering
Cumulative GPA: **9.14/10**

PROJECTS - VISION & LANGUAGE

Theme-based Word Doodling — Aug '18 - ongoing
Research Project under Devi Parikh — *Assistant Professor , Georgia Tech*

· Developing a creative AI-based model for generating doodles of an input word, given a theme.

Punny Captions — July '18

· Implemented (in Python) the NAACL '18 paper Punny Captions : Witty Wordplay in Image Descriptions which generates punny captions for a boring image.

Blind Image Dehazing — January '18 - May '18

· Implemented (in Python) the ICCP '16 paper Blind Image Dehazing Using Internal Patch Recurrence. Achieved approximately **20x better** speed for optimization in PyTorch as compared to the original MATLAB implementation.

EXPERIENCE

Nanyang Technological University — May '17 - August '17
Visiting Researcher under Arvind Easwaran and Anupam Chattopadhyay — *Singapore*

· Studied and modeled some well-known attacks on existing Cyber Physical Systems (CPSs).

Indian Institute of Technology, Bombay — May '16 - July '16
Summer intern under Varsha Apte — *Mumbai, India*

· Worked on EvalPro, a Django webapp being used in the CSE Department of IIT Bombay for handling computer related assignments, tests, submissions and automated evaluation.

TECHNICAL SKILLS

- **Strong** - C/C++, Python (with PyTorch, TensorFlow, Django & BeautifulSoup), JavaScript
- **Familiar** - MATLAB, PHP, MySQL
- **Tools** - Git, Phabricator, GDB (Debugger), LaTeX

RELEVANT COURSES

- **Computer Science** - Machine Learning[1], Deep Learning[1], Natural Language Processing
- **Mathematics** - Linear Algebra, Ordinary Differential, Univariate & Multivariable Calculus, Vector Calculus, Partial Differential Equations, Experimental Designs and Data Analysis (Statistics).

SCHOLASTIC ACHIEVEMENTS

- Recipient of the Pratibha Eaton Excellence Award for presenting innovative solutions using Augmented and Virtual reality for Eaton power plants (January 2017).
- Recipient of the prestigious Maharashtra Talent Search scholarship.

[1] courses taken in Fall 2018