Daksh Jotwani

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Education

- **Purdue University** — West Lafayette, IN
  B.S. Computer Science Honors, B.S. Mathematics — *August 2016 - Present*
  - GPA: **3.94/4.00**, Dean's List.
  - Expected Graduation Date: **May 2020.**
  - Relevant Coursework: Deep Learning, Machine Learning, Systems Programming, Data Structures, Algorithms, Databases, Computer Architecture, Linear Algebra, Real Analysis, Differential Equations.

Work Experience

- **Flipkart Myntra Jabong** — Bangalore, India
  Software Engineering Intern — *May 2019 - Present*
  - Built a face recognition-based authentication process that allows registered Flipkart customers to enter their unmanned grocery stores.
- **Purdue University** — West Lafayette, IN
  Undergraduate Research Assistant — *September 2018 - May 2019*
  - Analyzed the performance impact of speculative region search for data-points in overlapping regions of an R*-tree. Based on *The Case For Learned Index Structures* (arxiv.org/abs/1712.01208).
  - Constructed logistic regression and neural network models to speculate traversal routes of an R*-tree.
- **Myntra Jabong** — Bangalore, India
  Software Engineering Intern — *May 2018 - August 2018*
  - Applied computer vision techniques to monitor store traffic, analyze age/gender demographics, identify returning customers, and detect visual customer satisfaction.
  - Developed a system where computer vision-based inferences from store cameras are broadcast to store devices to provide personalized services such as product/size recommendations to customers.
- **Purdue University** — West Lafayette, IN
  Undergraduate Teaching Assistant — *August 2017 - May 2019*
  - Teach and grade labs for a *Systems Programming* class that covers fundamental system calls and the use of operating systems.
  - Assisted in running weekly recitation sessions for an *Electricity and Magnetism* course.
  - Held weekly office hours to answer questions related to lab assignments for both courses.

Projects

- **GTAi: Self Driving Car in GTA 5** — *March 2019 - Present*
  - Built a data-collection pipeline to map frames to controller inputs and load them for model training.
  - Modelled a neural network architecture to output controls for a given frame using ResNet50 as a feature extractor, followed by a LSTM to infer temporal information from a sequence of frames.
  - Working on using semantic segmentation to improve performance. (youtu.be/G2as7jAU4LM)
- **PayShare** — *May 2018 - Present*
  - Developed a web application to split and keep track of expenses amongst a group of people.
  - Applied Tesseract OCR to scan receipts and generate a list of items for users to select and split.
  - Working on transitive simplification of group expenses and porting PayShare to Android and iOS.

Skills

Languages: C, C++, Python, Java, JavaScript, MATLAB.
Frameworks: PyTorch, React, Numpy.