**PRATIK VAISHNAVI**

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**EDUCATION**

**STONY BROOK UNIVERSITY Stony Brook, New York**

* Masters in Computer Science. **CGPA**: 3.59/4  *December 2017*
* Coursework: Operating Systems, Analysis of Algorithms, Introduction to Computer Vision, Machine Learning, Probability and Statistics, Natural Language Processing.

**SVNIT, SURAT Surat, India**

* Bachelor of Technology, Electronics & Communication Engineering. **CGPA**: 7.34/10 *May 2016*

**WORK EXPERIENCE**

**BOMPOD SOLUTIONS PVT. LTD., AHMEDABAD, INDIA** *Technology Consultant Jan 2016 – Jul 2016*

**Role:** Supervised the development of the technological framework to support the operations of this fresh produce

supply-chain optimization start-up. Additionally, developed a custom POS and Inventory Management System suitable

to the business operations. The final framework consisted of 2 Android apps and 2 web apps.

**Personal contributions:**

* Designed and implemented the entire database for the business, to capture the information flowing between various inter-dependent processes. Designed algorithms for logistics optimization.
* Did the backend integration of the web apps, including the POS and Inventory management system.
* Analysis of live customer consumption data to map products with customer loyalty and in turn, come up with customized marketing schemes.

**Technology used:** JQuery, AJAX, PostgreSQL, HTML, Docker, Postman, Hasura, Python Libraries – Flask, Requests

**INDIAN INSTITUTE OF TECHNOLOGY, KARAGPUR, INDIA** *Research Intern May 2015 – Jul 2015*

**Problem Statement –** Dynamic hand gesture recognition using deep learning algorithms.

**Project Description –**

* Developed a model to detect dynamic hand gestures in spatio-temporal data.
* Synthesized a dataset suitable to the problem being tackled.
* Presented detailed analysis and performance results on multiple datasets.
* Results were published in two international research papers.

**Technology Used:** Python, MATLAB, Matconvnet, Theano, Lasagne, Opencv-Python, Scikit-Learn

**SELECT PROJECTS**

* **Generating product descriptions from tags** (Feb’17 - present)

Given tags describing the key attributes of a product, generate a flowery description for the product using sequence to sequence models. **Technology Used** - Python, Tensorflow

* **Tackling ambiguity due to multiple people in pose detection** (CSE-523, Advanced Project-I) (Aug’16 - present)

Develop a pose detection model immune to ambiguities due to the presence of multiple people in the frame using convolutional neural networks. **Technology Used**: Python, Caffe

* **Incorporating handcrafted features in Wide-ResNets** (Project, CSE-527) (Oct’16 - Dec’16)

Improve the accuracy in object detection of wide residual networks by enforcing learning using hand-crafted features. **Technology Used**: Python, Lasagne

**PUBLICATIONS**

* **Nrityabodha: Towards understanding Indian classical dance using a deep learning approach**, Aparna Mohanty et. al. Role: Co-Author | Signal Processing: Image Communication, Elsevier | Volume 47, September 2016, Pages 529–548
* **Robust Pose Detection using Deep Learning**, Aparna Mohanty et. al. | Role: Co-Author | Proceedings of International Conference of Computer Vision and Image Processing CVIP-2016 | Advances in Intelligent Systems and Computing (AISC), Springer | Volume 2, Page 94

**TECHNICAL SKILLS**

**Programming Languages**: Python, JQuery, C, C++, **Databases:** PostgreSQL, **Toolboxes:** MatConvnet, Theano, Lasagne,

Caffe, OpenCV-Python, Scikit-Learn, Flask, Requests, **Software:** MATLAB, LaTeX, **Others:** GitHub, Docker, Postman, Hasura