Jeet Patel

Targeted Interactions, Sears Hodings India

jeet.patel022@gmail.com
jeetp465
+91-8400394962

EDUCATION

June 2017	B.Tech (Computer Science And Engineering) Minor (Industrial & Management Engineering)	IIT Kanpur	5.9/10.0
June 2013	Class XII (Gujarat Secondary Education Board)	N.R. High School	87.00 %
June 2011	Class X (Gujarat Secondary Education Board)	N.R. High School	90.60 %

WORK EXPERIENCE

SEARS HOLDINGS INDIA

Extend TI Reporting Platform
Pune, India
Aug '17 - Present

- Served the reporting need for strategic **Targeted Interactions** program, providing a mechanism for tracking different **Business metrics** related to **Issuances** and **Redemptions** of offers in Sears and Kmart, across various channels.
- Learnt and understood architecture of the **BI Tool Microstrategy** and used it efficiently in creating Dashboards as per business specifications, while taking care of the newly created **Public and Schema** objects being consistent with the **Microstrategy Project**.
- Worked pro-actively with the **ETL Team** in formulating and checking the feasibility of the queries to be used, for reporting the data, in accordance with **Microstrategy's SQL Server**.

INTERNSHIPS

INCREDIBLE TECHNOLOGIES PVT. LTD.

Data Analysis Internship
Mumbai, India
May '16 - Jul '16

Whatsapp C2B

Mentored by Mr. Sudheer Katta, Head Analyst

- Launched an end-to-end **B2B** online bidding process for the bidding of second-hand two wheelers.
- The system was set up on **Whatsapp web** using the **Selenium Webdriver** and the back-end was maintained on **PostgreSQL**.
- The entire system was completely automated, from user addition to final selling of the vehicle with only human intervention of adding new dealers to the whatsapp broadcast list.

Bike Segmentation

Mentored by Mr. Sudheer Katta, Head Analyst

- Used **Foreground GrabCut Algorithm** and **Watershed Algorithm** for foreground estimation from the given still image.
- Used Morphological Contour Evolution methods like **Morphological Geodesic Active Contours** and **Morphological Active contours without Edges** to segment bikes from the background.
- Used **Salient Object Detection** to extract the foreground vehicle from still images.

INDIAN INSTITUTE OF MANAGEMENT (IIM), LUCKNOW

Marketing Management Internship
Kanpur, India
May '15 - Jun '15

Mentored by Prof. Sameer Mathur

- Learned to improve presentation skills by following the concepts of Garr Reynolds, Jesse DesJardins & Nancy Duarte.
- Learned concepts of **Marketing Management** and applied them on case studies published by **Harvard Business School**.
- Analyzed an article published under Harvard Business Review on the aspects of **'Social Media as a tool for Marketing'**.

KEY PROJECTS

EMOTION CLASSIFICATION

Jan '18 - Present

- Project aimed at classifying the facial expression of a person into **7 basic emotions** using **Neural Networks.**
- Pre-processed the **Kaggle's Facial Emotion Recognition** dataset and implemented a **Vanilla Convolution Neural Network** on top of it achieving **60%** accuracy.
- Conducted **Proof Of Concept** for the problem statement on the feasibility of using GAN's by implementing a **Wasserstein GAN**.

NEURAL DIARY: GENERATING COMPACT VISUAL STORIES

Jan '17 - Apr '17

- **Course Project** for course **CS698O**: Visual Recognition, under **Prof. Vinay Namoboodiri**.
- Implemented a sampling algorithm to sample a subset of frames to **reduce the bottleneck of computation**.
- Identified the **salient frames** by extracting the **VGG-features** of the samples and **comparing the L5 norm** of subsequent sampled frames.
- Preprocessed the MS-COCO dataset and trained the **Show and Tell** model for generating descriptions of the salient frames.
- Deployed the entire network on local php server to view the compact Neural-Diary.

ASPECT BASED SENTIMENT ANALYSIS

Aug '16 - Nov '16

- **Course Project** for course **CS676A**: Introduction to Natural Language Processing, under **Prof. Harsih Karnick**.
- Project aimed at identifying aspect terms from a given review and assign polarity to the extracted aspect.
- Used the **SemEval 2014** dataset for training and 200 manually annotated Amazon Fine Food Reviews dataset for testing.
- Used the **GoogleNews** pretrained word embeddings to represent the data and appended POS Tag features to it.
- Used **CNNs** to extract the aspects and **GRUs** for assigning polarity to the extracted aspect.

UNAMBIGUOUS OBJECT DESCRIPTION
Aug '16 - Nov '16

- **Course Project** for course **CS698U**: Recent Advances in Computer Vision, under **Prof. Gaurav Sharma**.
- Project aimed at implementing the generation network as described in the CVPR '16 paper, *Generation and Comprehension of Unambiguous Object Descriptions*.
- Pre-processed and extracted the **VGG features** of the images of **MSCOCO** dataset and implemented the **Generation** model.
- Implemented the **Neural Talk model** on MS-COCO dataset for 2 different splits in-order to compare the results generated by the two models i.e. Neural Talk one and the one described by the paper.

REAL TIME CLASSIFICATION OF OBJECTS
Jan '16 - Apr '16

- **Course Project** for course **CS771A**: Machine Learning: Tools & Techniques, under **Prof. Harish Karnick**
- Project aimed at Real-time classification of object from video stream into **2 wheelers, 4 wheelers** and **pedestrians**. Also , to find the **unique best pose** of a same person appearing in the video stream.
- Processed the video frames to extract candidate regions using **SIFT, HoG** and **CNN using fc7 features**.
- Performed classification on the extracted regions using SVM's, Random Forest and **Voila-Jones Face Detection Algorithm** to detect the faces and fine-tuned the parameters to suit our dataset.

OTHER PROJECTS

PEER-TO-PEER NETWORKS: AN EVOLUTIONARY GAME THEORETIC APPROACH
Jan '17 - Apr '17

- Formulated **Monetary** and **Contribution** based evolutionary game theoretic models and evaluated their feasibility on representing peer-to-peer networks. Also, added a penalty mechanism to tackle **free-riding and white washing**.

DUES CLEARANCE SYSTEM
Jan '17 - Apr '17

- Built and **end-to-end** no dues clearance system with **MySQL backend** and implemented a **two layer security system** to access specific functions of the system. Also, added a complaint mailing system for raising any queries.

R COMPILER
Jan '16 - Apr '16

- Built an **end-to-end** Compiler for **R Language** corresponding to the **x86 Machine Architecture** which handled basic functionality like **arithmetic operations, conditonal statements, loops and functions**.

NACHOS OPERATING SYSTEM
Jul '15 - Nov '15

- **Extended** the **NachOS** operating system to perform basic operating system functions like **Fork, Join, Sleep** and **Exec** and added support for **Demand Paging, Shared Memory, Condition Variables** and **Semaphores**.

TECHNICAL SKILLS

Programming Languages: Python (Proficient), SQL (Proficient), R, JavaScript, PHP

Tools and Utilities: Git (Proficient), Microstrategy (Intermediate), Teradata (Intermediate), LaTeX(Proficient)

Libraries: Keras (Proficient), Open-CV (Proficient), NLTK (Intermediate), Tensorflow, Scikit-Learn

POSITION OF RESPONSIBILITY

Apr '15 - Apr '16 | **Coordinator, Dance Club**
Conducted dance workshops and events through out the year along with managing regular club activities under a tight budget of **INR 1,00,000** and led a team of 20 members for participating in inter college dance competitions.
Organized and managed Dance Extravaganza, the annual dance showcase of Dance Club that comprised of **40+ performances** with participation of **100+ students** in a short span of **2 weeks**.

October'15 | **Contingent Leader, Rendezvous'15**
Lead a contingent of **120 students** participating in Rendezvous, the cultural festival of IIT Delhi.
Catered to the arrangements of travelling, accommodation and registration of the participants in their respective events.

EXTRA CURRICULAR ACHIEVEMENTS

Cultural | Won **3rd** and **2nd** prize respectively in **Tour De Force'15** and **Tour De Force'14**, a street dance competition conducted during Antaragni, comprising of a team of **12 students**.
Won **3rd** prize in **Jitterbug'14** and **Jitterbug'13**, a group dance competition comprising of team of 20 students each.

Miscellaneous | Won **1st** prize in **Decrypt**, the flagship case study competition among **300+** entries received all over the country conducted during ESummit'15 along with the prize of **INR 20,000**.
Won **1st** prize in **Black Box, Takneek'13** which required to code a few programs in programming language : Zombie in a short span of 1 hour.

INTERESTS

Computer Vision
Machine Learning
Natural Language Processing
Artificial Intelligence