

Tanmay Patel

RESEARCH PROJECT ASSISTANT - PROGRAMMER

ALbany, NY

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Education

State University of New York

M.S. - COMPUTER SCIENCE

Albany, NY

Jan. 2021 - Dec. 2022 (Expected)

- CGPA :3.91/4.0
- Courses: Advanced Data Structures and Algorithms, Data Mining , Operating System

School of Engineering and Applied Science

B.TECH. - INFORMATION AND COMMUNICATION TECHNOLOGY

Gujarat, India

August 2016 - May 2020

- Courses: Data Structures and Algorithms, Software Engineering , Machine Learning

Research Experience

Research Foundation of State University of New York

RESEARCH PROJECT ASSISTANT

Albany, NY

June 2021 - PRESENT

- Performing Real Time analysis of financial data of NY State Cities with varied visualizations
- Designing Multiple Animated Pages with react-router

Industry Experience

Moltis Technologies

WEB DEVELOPER

Gujarat, India

May 2019 - July 2019

- Developed ERP System for effective management of Sales using HTML , Bootstrap , MySQL and Python

Academic Projects

Big-Data as Service (BDaaS) and Function as a Service (FaaS) for Online Multiplayer Games

Javascript, NodeJS, Hadoop ,
Spark

COURSE PROJECT : DATA ANALYTICS AND VISUALIZATION

July 2019 - Dec 2019

- To store and perform analysis on game data of most popular games such as PUBG, CS: GO, Fortnite , a distributed solution was designed
- H-Base was used to store data and the client can retrieve the game data using a REST API.

Food Image Recognition and Nutrition Visualization

Jupyter Notebook, Flask, Keras,
TensorFlow, OpenCV

COURSE PROJECT : SOFTWARE ENGINEERING

Oct 2019 - Dec 2019

- Utilized transfer-learning and re-trained the final layer of Inception-V3 model with additional 101 classes to automatically recognize food from images. Achieved an accuracy of 82 % on the same. Also, consumed the USDA (U.S. Department of Agriculture) Food-Data-Central-API to visualize the nutritional facts of the same.

Face and Facial Expression Recognition

C++, Python, Caffe, OpenCV

COURSE PROJECT : MACHINE LEARNING

Jan 2018 - March 2018

- Machine Learning based human facial expression recognition system that can detect seven basic facial expressions using C++ and OpenCV.
- Deep Learning based large Scale face recognition and verification system. It includes face detection, 2D alignment and tracking

Microprocessor Without Interlocked Pipeline Stages

Verilog, Xilinx ISE

COURSE PROJECT : DIGITAL DESIGN

Aug 2017 - Oct 2017

- Designed and implemented a RISC based 8-bits five stage pipelined processor, operating at 579.67 MHz clock frequency with 19 I/O pins and 28 instructions having 5 Addressing formats. Tested on Xilinx Artix-7 FPGA.

Honors and Awards

- **Dean's Merit Scholarship(\$15000)** , State University of New York , Albany.
- **Member of IEEE Student Branch**, School of Engineering and Applied Science.

- **Teaching Assistant at Ahmedabad University** for the subjects Data Structures and Algorithm and Computer Networks.
- Certified by Udemy for Course **”Data Visualization With Tableau”**