

# Pranav Patel

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## EDUCATION

### Master's in Information Technology,

University of Technology Sydney (UTS),

Major: Data Analytics & Sub Major: Cyber Security.

July 2021 (Excepted) | Sydney, Australia

### BS in Computer Engineering,

Sarvajani College of Engineering and Technology.

August 2018 | Surat, India

## COURSEWORK

### Postgraduate

Fundamental of Data Analytics

LANs and Routing

Cyber Security

Deep Learning & Convolution Neural Network

Data Visualization & Visual Analytics

### Undergraduate

Data Structure

System Programming

Artificial Intelligence

Operating System

Theory of Computation

## PROFESSIONAL DEVELOPMENT

### MongoDB University

[M220JS MongoDB for JS Devs.](#)

March 2019 | Virtually

### Cisco Networking Academy

[CCNA Routing and Switching: Intro. to Networks](#)

February 2020 | UTS curriculum

### AlgoExpert

[Certificate of Completion](#)

June 2020 | Virtually

## SKILLS

### Programming Languages:

Python • JavaScript / Vanilla JavaScript • Java • C / C++

### Web Technology:

ReactJS • HTML5 • CSS • jQuery • NodeJS

• Google Charts • AngularJS • Bootstrap

### Database:

MySQL • MongoDB

### Collaboration Tools:

GitHub

### Microcontroller:

Particle Photon • Arduino UNO

### Data Analytics Tools:

KNIME • Ms Excel • Power-BI

### Computer Science Core:

Algorithm Design & Analysis • Data Structure

## EXPERIENCE

### Investa Mark | Associate Research Analyst

July 2018 - May 2019 | Texas, United States of America (Virtually)

**Noteworthy:** Lead machine learning research team and developed **07 machine learning algorithms** using Python from the scratch and evaluated it on various available open source dataset.

- Implement the food classification system with over 80% accuracy by using the **Google Cloud Vision** based on the ingredients used.

### WinR Tech Limited | Full Stack Developer Intern

June 2017 - June 2018 | Surat, India

**Award:** Runners up / 40 Groups

**Noteworthy:** Simulated 50 virtual devices via code to perform **load test** and to check the **robustness** of the [proposed system](#).

- Managed the project development & design entire system; Fabricated the hardware for detection of toxins present in the environment and visualized the collected data via user intuitive website (dashboard).
- Uplifted the **search time complexity 7%** by taking the a hash of incoming data.
- **Automated the firmware update** for the hardware, live monitoring, and remote controlling of the hardware through the created dashboard.
- Suggested an idea to use **async call** to **reduce** total **data loss**.

## PROJECTS

### [Cloud storage](#)

A self-made cloud storage designed and implemented to store the personal information in high volume was created in **NodeJS** with some aid of the **CSS & JavaScript** and deployed on to the Internet for world-wide access.

Inspired by the many YouTube videos and LinkedIn's post(s), a series of algorithms visualizer which shows the visualization of the Binary Search Tree (BST), AVL tree and some sorting algorithms such as Insertion sort, Quick sort and Bubble sort was made. All these projects are made with a **Vanilla JavaScript** and some basic **CSS**.

An innovative deep learning-based project used to detect the ongoing road work in real-time using Raspberry PI camera and update the Google Maps via server. This is made in conjunction with **Python** and **TensorFlow**.

List and live demo of all my project(s) are available at: - <http://pranavpatel.me/>

## PATENT & PUBLICATION

**[1] Patent:** Patel P. & et al., "A System to Detect Manage Forest Fire Using a Sensor Assembly Unmanned Aerial Device". India Patent [201921003375](#) (Pending).

**[2] Publication:** Patel P. & et al., "Identification Visualization of Hazardous Gases Using IoT". [4<sup>th</sup> IEEE International Conference on IoT-SIU 2019](#), India.

References are available upon request.

(\*) Only a Binary Search Tree Visualizer link is provided.