Neel Patel

neel747hp@gmail.com | Surat, Gujarat
GitHub | LinkedIn | Portfolio

Education

S.P.B. Patel Engineering College   Ahmedabad
Bachelor of Information Technology GPA: 9.22   Jul 2018 - Jul 2022

S.E.M. High School   Surat
High Secondary (GSEB Board) Applied Science GPA: 6.45   Jul 2016 - Jul 2018

S.E.M. High School   Surat
Secondary (GSEB Board) General GPA: 7.0   Jun 2005 – May 2016

Experience

Tata Consultancy Services (TCS) | Systems Engineer   Ahmedabad | Jun 2022 – Present

- Developing full-stack web applications & APIs which processed, analyzed, and rendered data visually. Maximizing applications' efficiency, data quality, scope, operability, and flexibility. Planned, wrote, and debugged web applications with complete accuracy.

Persistent Systems | Software Development Engineer Trainee   Remote | Feb 2022 – Jun 2022

- Got training and Hands-on exposure to SQL, Core Java, Maven, Spring Boot, HTML, CSS, and React JS.

The Intern Academy | Machine Learning Intern   Remote | Aug 2021 - Sep 2021

- Worked on Principle Component Analysis Algorithm to reduce the number of features in the image dataset.
- Build a complete ML pipeline from preparing data for analysis to making ML models for prediction.

The Spark Foundation | Business Analytics & Data Science Intern   Remote | Jun 2021 - Aug 2021

- Performed Data Pre-processing and did Exploratory Data analysis on the company's retail data using matplotlib and seaborn. Build ML Model for predicting profits & user needs using sci-kit learn library.
- We used Un-supervised Learning algorithms to analyze the retail dataset for products and customer segmentation based on problem definition.

KPMG | Data Analytics Consulting Intern   Remote | Apr 2021 - May 2021

- Prepared a Data Quality Assessment Report on Bike's sales data. I did Data Insights and visualization charts and data Interpretation using tableau.

Saffrony Institute of Technology | Robocon Member   Gujarat, India | Sep 2019 - Mar 2020

- Member of the Robocon Club in College. Worked in Design & Analysis Department as well as Automation. My main role is to do data analysis on the different robot structures and design them according to the theme.
- Developed the obstacle avoiding algorithm and Robotic holonomic structure based on Arduino controller.

Skills

Programming Languages:	Python, Java, C, SQL, HTML, CSS, J2EE, JavaScript, DSA, OOPS
Libraries/Frameworks:	Hibernate, NumPy, scikit-learn, Pandas, Spring Boot
Tools/Platforms:	Octave, Jupyter, GCP, Anaconda, Git, Azure, REST APIs
Databases:	MySQL
OS:	Linux, Windows
Area of Interest:	Machine Learning, Data Science, Data Analytics, Big Data

Projects

Color Detection from Image | Link
OpenCV, Python

Color Detection is mainly used in the Computer Vision domain. Here, my model identifies the selected color from the Image and returns the RGB values & color name. It makes predictions of the color from the selected pixel.

Face Mask Detection (Near real time) | Link
OpenCV, Python, Keras, MobileNet

Based on real-time video frames we are detecting the Mask on the Human Face. Here we are using two models, 2000 approx. pre-processed Image data will fit into the pre-trained MobileNet V2 model & from its output, we will create our classification model for prediction. Using the FaceNet model to detect the face in real-time frames and send it to our model for prediction & deliver output in no time.

Parkinson's Disease Prediction | Link
PCA, SVC

The main objective of this project is to detect the early onset of Parkinson's disease. By using Principle component Analysis (PCA) I detected the core symptoms that show maximum impact, and I used different models like KNN Algorithm, Support Vector Classifier (SVC) and Random Forest Algorithm.

Garbage Segmentation System (Academic Team Project) | Link
Firebase, HTML, CSS

We designed an application that scans the Quick Response Code of dustbins. After it detects keep the records that garbage is being collected from everywhere. This will update the database records that all targeted area waste has been collected successfully 90-95% every day.

Honors & Awards

1st Rank in 1st, 4th & 5th semester in academics (College Level) Next

Bigshot Hackathon Winner (College Level)

Kho-Kho Champions (Zone Level)

Courses & Certifications

Deep Learning (IIT Madras – NPTEL)

Azure Fundamentals (Microsoft)

Azure Data Fundamentals (Microsoft)

Machine Learning (Stanford – Coursera)

Data Analytics Fundamentals (AWS)

Learning Excel – Data Analysis (LinkedIn)