

SHREYA PATEL

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EDUCATION

Pandit Deendayal Energy University (PDEU, formerly PDPU)

Gandhinagar, Gujarat

B. Tech. in Computer Engineering – CGPA: 9.66/10

Jul. 18 – May 22

Coursework: Artificial Intelligence, Machine Learning, Computer Vision, IoT, Web Development, Operating System, Big Data Analytics, NLP, Design and Analysis of Algorithms, Software Engineering, Information Security, Object Orient Programming, and Database Management System.

PROFESSIONAL EXPOSURE

Front-end Developer at BackDrop.AI

Apr. 21 – Present

Working as a front-end developer for a start-up where my work is to create the front-end of the website, for automatic image and video background removal and replacement using deep learning.

Front-end Developer and Graphic Designer at AIMV | ([Website](#))

Dec. 20 – Sep. 21

Worked with the web development and graphic design team. As part of the graphic design team, I developed the conference logo and assisted in the creation of the whole website from the scratch and updating it time to time.

Web Development Intern at PATTERNS

Jun. 21 – Aug. 21

Completed a one-month web development training program. Over the next month, I built a blogging website for a customer using HTML, CSS, JavaScript, jQuery, PHP, Node JS, MongoDB, and Bootstrap.

RESEARCH WORK

Indian Crime Data Analytics and Prediction

Aug. 21 – Present

Description: The paper presents an efficient analysis that detects aspects of criminal occurrences, providing a combinatorial incident description schema that will assist police in detecting patterns and trends for forecasting new crime, establishing relationships, and probable explanations.

Diabetes Prediction using Stacking Classifier | ([Github Link](#))

Jan. 21 – Jun. 21

Description: We stacked 6 classifiers, namely Support Vector Machine, Artificial Neural Network Classifier, Logistic Regression Classifier, Decision Tree Classifier, Random Forest Classifier and Gaussian Naive Bayes Classifier, into a single model, which as a whole, uses Logistic Regression Classification on these 6 basic hyperparameter tuned models, to predict diabetes using some features of a person's health. ([Research Paper Link](#))

Accepted and Presented at: IEEE AIMV (Artificial intelligence and Machine Learning) 2021 and will be published in IEEE Digital Library.

Efficient Vaccine Scheduler base on CPU Scheduling Algorithms | ([Github Link](#))

Jan. 21 – Jun. 21

Description: This paper presents an efficient algorithm for scheduling vaccination process which is based on the CPU scheduling algorithms of an operating system. The ranking system is based on the concept that health care personnel should be given higher priority, followed by front-line workers, major healthcare patients, elderly people, and finally the general public.

([Research Paper Link](#))

Accepted and presented at: IEEE AIMV (Artificial intelligence and Machine Learning) 2021 and will be published in IEEE Digital Library.

PROJECTS

Water Management System and Analytics | Python 3.7, Raspberry Pi

Aug. 21 – Present

Creating an IoT-based smart water management system to decrease water waste by using sensors to gather data and Raspberry Pi to store that data into a database that can be analysed. This analysis allows for the effective planning of a smart water supply system.

Chat Bot, using Natural Language Processing (NLP) | Python 3.7 | ([Github Link](#))

Jan. 21 – May 21

The chat bot was created using 5 level of NLP. The bot can answer general queries and greeting with an accuracy of 80 percent.

Rubik's Cube Timer and Visualiser | JSON, CSS3, HTML5, JS, jQuery | ([Github Link](#))

Aug. 20 – Dec. 20

Developed a similar platform as official cubing websites. This application provides user with the basic functionality available at other platforms as well as allows them to submit their video through our platform to get their name in unofficial rank list.

GUI for Process Scheduling Algorithms | ElectronJS | ([Github Link](#))

Aug. 20 – Dec. 20

This project was created to demonstrate the visualisation of majority of scheduling algorithms. It provides basic output like Completion time, Turnaround time, etc. as well as a view time log and a comparison table for all the methods.

BST Traversal Visualisation | Java Graphs, Java Swing | ([Github Link](#))

Jan. 20 – May 20

Built a GUI Application to showcase the actual logic and building of BST, graphically. It has all the functionality that we use during understanding and solving BST like addition and deletion of nodes.

SKILLS

Languages : Java, Python, C/C++, MySQL, JavaScript, HTML/CSS, R, PHP

Frameworks : React, Node.js, WordPress, Material-UI, FastAPI

Tools : Git, MATLAB, Google Cloud Platform, VS Code, Visual Studio, PyCharm, NLTK, BigML, TensorFlow, Excel, Jupyter, Scikit-learn, Apache Hadoop, Tableau, Eclipse

Libraries : Pandas, Plotly, Seaborn, Scikit Learn, TensorFlow, PyTorch, SciPy, BeautifulSoup, NumPy, Matplotlib

Others : MERN Stack, Machine Learning, Data Science, DSA, Leadership, Artificial Intelligence, Neural Network, Operating System

Add-on skills : Strong Communication skills, Good Motivational Speaker, Public Speaking

ACCOMPLISHMENTS

- Ranked **3rd** (India Rank **1**) in CodeChef Starters 9 ([Contest Link](#))
- Max. CodeChef Rating: **1651** (3 Star)
- Max. CodeForces Rating: **1566** (Specialist)
- Hackerrank: **5** Star coder in C language
- Designed logo for the International conference AIMV (Artificial Intelligence and Machine Vision)
- My art work was selected to be published in newspapers for the publicity of the TINTS + SHADES (art exhibition) from the 32 Artists that were presenting their art work at the exhibition
- National Basketball Player
- Ranked **36** in National Amplitude Test in Architecture in India
- **City Topper** in Engineering Drawing. (12th Boards)
- My coffee painting was in the **top 3** painting selected for the magazine at my university
- Won **1st** prize in paper quilling competition held at my university during the time of FLARE (annual cultural fest at PDEU)

EXTRACURRICULAR ACTIVITIES

- I am a national basketball player and the captain of my university's girls basketball team B.
- My interests include painting, sketching, and drawing. I have participated in several competitions and have also had my artwork displayed at an art exhibition hosted by my institution at CEPT. ([My Art Work](#))
- I have lead 3 clubs at my university at all different positions: Symmetry (Graphic Design): Treasurer, Cube-i-Cult (Cubing): Event Management Head, CodeChef PDEU Chapter: Executive Committee Member.
- I enjoy speed cubing and can solve five distinct sorts of hardware puzzles, including cubes, with the following personal best times: Rubik's Cube (44.16 s), 2x2x2 Cube (15.23 s), 2x2x3 Cube (23.80 s), Pyraminx (21.97 s) and Mirror Cube (1 min and 10 s).
- I now own 16 gold medals, 13 silver medals, 3 bronze medals, and two best athlete awards in athletics.
- I have worked as Graphic Design intern at GirlScript Summer of Code and Hyperzep infotech Pvt. Ltd for 6 and 4 months respectively.

VOLUNTEER EXPOSURE

Volunteered at AIMV conference

24th – 26th Sep. 21

- Helped in managing the entire event for three days.
- Was in charge of Venue arrangement and Certification preparation.

Admission volunteer for PDEU

Apr. 20 – Jul. 20

- Helped the PDEU in the admission process for the year 2020.
- Replied to any query the student had regarding PDEU. Furthermore, I shared my thoughts on studying at PDEU with students in order for them to be more confident in their decision to attend PDEU.

Volunteered at Sneh Foundation (NGO).

May 19 – Jun. 19

- Helped NGO to raise funds by campaigns to help NGO buy books, school dresses, and stationary.
- Served food to the poor children under the NGO and Collected the data (like Aadhar No., Rashaan No., etc.) from people living in the slum for government registrations.

Organising committee for TEDx PDP

Mar. 19 – Apr. 19

- Helped the committee in the smooth operation of the event.
- Helped the team to manage the speakers and to make handmade mementos for the speakers.

CERTIFICATIONS

- Joy of computing using python by NPTEL
- Finance by Pandit Deendayal Energy University
- SQL by Stanford Online
- Electrical vehicle technology by Pandit Deendayal Energy University
- What is Data Science? by IBM
- Data Science Methodology by IBM
- Tools for Data Science by IBM