

SHREYA RAJPAL

Student,

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Projects by Shreya: <https://shreyaar12.github.io/Projects-by-Shr/>

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SUMMARY

Passionate about AI, machine learning, and deep learning, I am a highly driven individual with a strong technical background and a knack for innovation. As the Technical Head at IEEE SSIT VIT and an Open Source Enthusiast, I actively pursue opportunities to contribute to the tech development field. Currently pursuing a B.Tech. in Software Engineering, I possess expertise in front-end development(web and app) and possess excellent interpersonal skills to inspire and collaborate effectively within teams. My goal is to leverage my skills and passion to make meaningful contributions to cutting-edge projects in the field of AI and technology.

ACADEMIC DETAILS

Year	Degree/Board	Institute	GPA / Marks (%)
2021	Bachelor of Technology	Vellore Institute of Technology, Vellore, Tamil Nadu, India	8.65 (4 sem)
2021	CBSE	GD Goenka Public School, Delhi, India	89.50
2019	CBSE	Prudence School, Delhi, India	90.6

HIGHER EDUCATION EXPERIENCE

GD Goenka Public School, Model Town, Delhi

Central Board of Secondary Education

Supervisor: PGT Ms. Karuna Gupta

School Project: Advice.didi, the multi-purpose software project developed to support and provide help in improving overall health of user in the face of pandemic via a computerized chat-bot. Advice.didi, developed with the aim to guide the end-user through tough times and promote their mental stability.

- Implemented tokenization, stemming, and speech tagging in an NLP algorithm to give a user-profile summary or "advice" according to user inputs; Tech Stack used: Python

INTERNSHIPS

I. Rsshu Connect Pvt Ltd.

Jan 2023-Mar 2023

- Company overview: *Apna Konnect* is a locality-based social networking platform that helps you make real-world social connections.
- Role: Built an app with 100+ downloads on Google play store and 5-star rating.
- Worked and successfully solved multiple bugs and added features including profile functionality, deep linking with firebase, notifications; Collaborated in a team of 7 using version control as Git.
- Learned and enhanced various app development skills using React Native and firebase.

II. Shafance Pvt Ltd.

Oct 2022-Nov 2022

- Company overview: vision to be a Shadow of Guidance for young students. Provides educational content for students in classes 6th- 9th.
- Role: Built main website scalable for 1k+ users and designed it as an education-based UI UX with agile methodology. Collaborated in a team of 3 using version control as Git
- Skills acquired: web development using HTML, CSS, SCSS, Bootstrap CSS, JQuery and Bootstrap JS.

III. Quantum Learning (AEP Microsoft)

Apr 2022-Sept 2022

- Skills acquired: Hands-on Supervised and unsupervised machine learning topics
- Role: Built a project using supervised machine learning methods and implemented to visualize data.

IV. Equigate Pvt. Ltd. (Citizen Innovation Lab)

Nov 2021-Mar 2022

- Citizen Innovation Lab: Awarded second position in the CIL hackathon with the Equigate Team. Further got

selected for the sprint plan in the CIL Incubation and acceleration programs.

- b) Company overview: Delivers safe drinking water solutions. Drinking water quality tests are done in accordance with IS10500-2012, customized water purification systems for households and institutions, and emergency assistance during floods and storms.
- c) Skills acquired: Team management, presentation skills, independent project planning.

PROJECTS

I. Udacity- Image Classifier

- a. Developed a PyTorch-based image classifier.
- b. Used 102 category dataset of commonly occurring flowers in the UK, with each class containing 40-258 images.
- c. Converted the classifier into a command-line application.
- d. Demonstrated strong problem-solving skills and attention to detail.
- e. Tech Stack used: *Python modules including PyTorch and Matplotlib.*
- f. Link to Github Repository: <https://github.com/Shreyaar12/UdacityIMGclassifier/>

II. Code Canvas (GSSOC'23)

- a. Project Admin of Github repository Games and Go at GSSOC 2023
- b. Designed and developed a hub of 20+ Open Source Projects based on basic tech stacks for beginners
- c. Learned code review and enhanced team work skills by working with 50+ collaborators
- d. Handled over 250+ issues and 100+ pull requests in our repository as the Sole Project Admin.
- e. Tech stack used: *HTML, CSS, Bootstrap CSS, JQuery and JS.*
- f. Link to Github Repository: <https://github.com/ssitvit/Code-Canvas/>

III. Foodico- One stop solution to your dining needs

- a. Designed UI UX based on restaurant and food related websites
- b. Collaborated and worked with agile methodology in a team of 5 as the team lead.
- c. Tested and reviewed the working of entire website manually based on test cases mapping through modules and severity.
- d. Tech Stack used: *HTML, CSS, SCSS, Bootstrap CSS, JQuery and JS.*
- e. Link to Website: <https://shreyaar12.github.io/Foodico/>

IV. SHAFANCE- Shadow of Guidance

- a. Designed UI UX based on education
- b. Learned and implemented various JS and CSS, libraries and frameworks like JQuery, Bootstrap JS and SCSS.
- c. Collaborated and worked diligently in a team of 3 using version control system Git
- d. Tech Stack used: *HTML, CSS, SCSS, Bootstrap CSS, JQuery and Bootstrap JS.*
- e. Link to Website: <http://www.shafance.com/>

V. Games and Go (Hacktober Fest 2022, GSSOC'23)

- a. Project Admin of Github repository Games and Go at GSSOC'23
- b. Maintainer of Github repository Games and Go at Hacktober Fest 2022
- c. Designed and developed UI UX for gaming website.
- d. Learned code review and enhanced team work skills by working with 50+ collaborators
- e. Handled over 250+ issues and 100+ pull requests in our repository as the Sole Project Admin.
- f. Tech stack used: *React v6, React-Router*
- g. Link to Github Repository: <https://github.com/ssitvit/Games-and-Go>

VI. Codeial Social Media App

- a. Learned to implement various features of React-redux and collaborate with backend.
- b. The app consists of authentication using Jwt tokens, chat using websocket client, posts, user profile, adding friends and other features.
- c. Tech stack used: *React v6, React-redux, Websocket, Backend*
- d. Link to Github Repository: <https://github.com/Shreyaar12/Codeial-social-app>

VII. Movie App

- a. A basic functionality web app for browsing through latest movies and implemented the functionality of favouriting and search through this app.

- b. Learned to implement React-redux and various api.
- c. Tech stack used: *React v6, React-redux*.
- d. Link to Github Repository: <https://github.com/Shreyaar12/Movie-app>

RESEARCH PAPERS

I. Automatic Number Plate Recognition System using GPU

- a. Explored state-of-the-art in Automatic Number Plate Recognition (ANPR) systems, focusing on current methodologies and key factors affecting system performance.
- b. Investigated the impact of using more powerful processors, such as GPUs over CPUs, to enhance system efficiency.
- c. Highlighted the importance of higher resolution cameras in improving the clarity of license plate images, leading to higher accuracy in character recognition.
- d. Tech Stack used: *Python modules including OpenCV and EasyOCR*.
- e. Drive Link to Certificate of Presentation: <https://shorturl.at/dqAK4>

POSITIONS OF RESPONSIBILITY

- I. Minister of Health & Well Being in Student Council at GD Goenka Public School, Model Town (GDG)
- II. Board Member- Technical Head at IEEE SSIT VIT- IEEE Society on Social Implications of Technology
- III. Project Admin- 2 Projects for GSSOC'23
- IV. Core Committee Member at IEEE WIE VIT- IEEE-Women In Engineering VIT
- V. Core Committee Member at VITAC- VIT Anchoring Club
- VI. Event Coordinator at IEEE WIE VIT event "Hooked on React" 2022

TECHNICAL SKILLS

Techniques: Python; C++; C; MySQL (Database Management System); Figma; Canva; Microsoft Office; web designing using HTML, CSS and Java Script; Redux; React.js; Firebase; Git; Github; R; React Native; React Router, AWS Machine Learning(Dep Racer); Python Libraries used in Data Visualization- Numpy, Pandas, Scikit, Matplotlib, PyTorch; SPARQL.

CERTIFICATIONS

- I. AWS-Udacity Nanodegree for AI programming in Python
- II. JavaScript Basics: an online non-credit course authorized by University of California, Davis and offered through Coursera.
- III. Session on How to build your first Cryptocurrency from Techlearn
- IV. Session on How Flipkart's Helping small business to grow using NLP from Techlearn
- V. Session on How Instagram's facial filters work from Techlearn
- VI. Goldman Sach's Virtual Engineering Program
- VII. Advance Frontend Web Development Course by Coding Ninjas
- VIII. Principles of Management (John Hopkins University) (Coursera)
- IX. Semantic Web Technologies- OpenHPI

EXTRA-CURRICULAR ACTIVITIES

- 2nd prize CIL Hackathon (2021)
- 1st prize Eco Hack IEEE SSIT, VIT (2021)
- AWS Deep Racer September Qualifier model rank 303/2058
- AWS-Udacity Scholarship for AI programming in Python
- Speaker Session at Code Confluence- Igniting Open Source Innovation by IEEE SSIT VIT(50+ audience)
- Grace Hopper Celebration Scholarship'23 Recipient
- 2 projects accepted to Girls Script Summer of Code'23