Sanya Singh

922 W 23rd St, #207, Los Angeles, CA 90007

213-332-7446 | sanyasin@usc.edu | https://dear-s.github.io/ | www.linkedin.com/in/sanyasin | https://github.com/dear-s

EDUCATION

University of Southern California, USA: Master's in Computer Science (MSCS) [Lenore-Jordan-Martin Scholarship recipient]

Major: Computer Science   **May 2021 (expected)**

Coursework: CSCI 561 – Artificial Intelligence, CSCI 570 – Analysis of Algorithms, CSCI 585 – Database Systems

Guru Gobind Singh Indraprastha University, India: Bachelor's in technology (B. Tech)

Major: Computer Science and Engineering   GPA: 8.7/10   **June 2019**

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, JavaScript, HTML, CSS, XML, SQL (RDBMS), NodeJS, Postgres, Oracle

Libraries & Frameworks: NumPy, Pandas, Scikit-Learn, Matplotlib, Android, Linux, Bootstrap, Firebase, Gitlab

WORK EXPERIENCE / INTERNSHIPS

Indian Railways Catering and Tourism Corporation (IRCTC), Delhi, India   **(July 2018 – August 2018)**

IT Intern

- Directed functionality of issue resolution management for catering operations in Indian Railways for 2 months.
- Managed to work on AI-based cameras, deployed via TensorFlow.
- Researched about Object Detection, Pattern Detection, Posture Detection, Object Count, Facial Recognition – used in the AI camera project
- Executed comprehensive test plans for software – RED QUANTA (software code was written in Java)
- Facilitated with VCR, DVR technology and executed live streaming via Wowza Streaming Engine – runs on Amazon EC2.

EI Systems & Technex IIT BHU Varanasi, India   **(May 2018 – June 2018)**

Data Analytics Intern

- Worked on Wheat Sample Classification (by Python script)
- Depicted and researched on how variables project the type of the sample
- Prepared analysis obtained from various Machine Learning Algorithm
- Analyzed efficiency/accuracy score (95.23% through Neural networks – multi layer perceptron classifier)

Basics Eduventures, Madhya Pradesh, India   **(January 2018 – March 2018)**

Web Developer Intern

- Developed and deployed company's websites using different tools and languages
- Worked on AI Chatbot (embedded on the website) and Email Marketing.
- Managed user engagement analytics strategy and provided insights on incoming traffic.
- Maintained a loading speed of 2.2s and decreased it by 16%.

PROJECTS

- **Helix Chatbot**

  https://github.com/dear-s/Helix-Chatbot | https://github.com/dear-s/Expo-Snack-X-Helix-Chatbot
    - Designed and developed an intelligent chatbot that records a patient's headache and medication taken for it.
    - Designed a decision tree that contains the questions and answers posed by the chatbot and that works with the phone
    - Chatbot phone number (via Twilio): +1 2133206669 (Send "hey" for registration process and to start chatbot questions)
    - Developed a mobile app using Expo that embodies the chatbot in the form of both audio and text.
    - Technologies: Flask, Python, MySQL, HTML, CSS, React Native, matplotlib, Twilio services, Expo, Dialogflow API

- **Foot-Fall**

  https://github.com/dear-s/Foot-Fall
    - Retail analysis project – People counting technology, includes all relevant data about how customers move, where is maximum footfall? (The data was collected by real-time sensors)
    - Collaborated and developed an effective tool for determining how to optimize store layout for better sales, results in 80% of profit.
    - Technologies: R-Script, Shiny Dashboard, HTML, CSS, Bootstrap

- **Interstellar: The Next Move** [**Python script**]

  https://github.com/dear-s/INTERSTELLAR
    - Worked with a team of 4 and created an algorithm along with a dashboard. It predicts the future price of cryptocurrency called Lumen (XLM) or Stellar. The dashboard consists of graphs depicting growth or downfall of Lumens. Accuracy – above 90%
    - Applied LSTM - Long Short Term Memory networks – a special kind of RNN (recurrent neural networks), capable of learning long-term dependencies. If compare it to where it was in April of 2017, coin has still risen 2,900% in one year.
    - Technologies: Python, Flask, HTML, CSS

- **E-commerce website**: [**HTML, CSS, Bootstrap, SQL, PHP**]
    - Strengthen the knowledge of web development by building a responsive website, handles the SQL queries, database handling, transaction handling, etc. A prototype explaining the working of e-commerce website.
    - Technologies: HTML, CSS, Bootstrap, MySQL, PHP