PRAKHAR SRIVASTAVA

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EXPERIENCE

GRADUATE TEACHING ASSISTANT

Electrical and Computer Engineering, Stony Brook University

Sep 2021 – Present Stony Brook, NY

- Collaborate with Professor to design and grade the homework assignment and exams for the Fall 2021 Computer Vision.
- Created weekly and monthly reports among other tasks using Microsoft Excel.

PYTHON DEVELOPER INTERN

Solera Life Sciences Pvt Ltd.

Oct 2020 – Jan 2021 Work From Home

- Developed and ran scripts and queries to retrieve data by creating views, managing client databases.
- Developed scripts for the website(cbdbene.com) to visually examine the web-page errors and helps to debug the responsiveness of the website using **Selenium, BeautifulSoup, Pandas, Numpy**.
- Write scripts to automate updating of data files on entire website and customize it as seen from a mobile phone with all the formatting of the pages using **Selenium, Pandas, Numpy**.

ELECTRICAL ENGINEER

Monteage Technologies Pvt Ltd.

Jan 2018 – Sep 2020 Delhi, India

- Focus on clients SI's real-time needs in the technology sector of Barcode, RFID, GPS, CCTV, LED Components and Smart Education System.
- Authorized work instructions to define user provisioning and file uploads, improvised work of 80% reduction in time taken for large-scale user provisioning.
- Evaluated a semi-analytical technique in **MATLAB** to generate homogenous magnetic field for rectangular and circular coils. Also, Implemented contouring method for cleaning and processing thermal images captured using FLIR camera in **MATLAB**.

ELECTRICAL ENGINEER

Hind Rectifiers Ltd.

July 2017 – Jan 2018 Dehradun, India

- **Quality Control(QC):** An Quality Control engineer followed six sigma for secure and efficient computing-based technologies using **MATLAB**.
- Monitor, inspect the quality and working of high voltage transformers, multiplexers, and converters before the production began.
- **Verified** by writing a program and model the system in **MATLAB** which provided a platform to evaluate and enhance the stability, reliability, and integrity of real-time functioning of the system.

SKILLS

- Over 5,000 lines: C/C++, python
- Over 2,000 lines: MATLAB
- Over 1,000 lines: JAVA
- Machine Learning: Scikit-Learn, TensorFlow, OpenCV, PyTorch, Pandas
- Search and Databases: Solr, whoosh, MongoDB, neo4j,mySQL
- Operating system : Windows, Linux, macOS
- Web: HTML/CSS/JS, Spring, Flask, react.js, d3.js
- Tools: Pycharm, Jupyter, Git, Intellij, Google Colab
- Web Scraper: Selenium, BeautifulSoup, Scrapy
- Embedded: Proteus design suite, AutoCad, Labview, Multisim

EDUCATION

MS in Computer Engineering

Stony Brook University

2021 – 2022 Stony Brook, NY

- GPA: 3.42/4.0
- **Key Courses:**
  - Image Processing
  - Modern Sensors AI apps
  - Network Security
  - Computaional Models (JAVA)
  - Codesign of Embedded Systems
  - Principle of Programming Languages

B.Tech. in Electrical Engineering

DIT University

2013 – 2017 Dehradun, India

- GPA: 7.35/10
- **Key Courses:** Operating Systems, Engineering Mathematics, Wireless Communication

PROJECTS

COMPGAN RECOMMEND SYSTEM

- Generative model uses adversarial minimax game and trains two models, generative and discriminative model.
- Captures the data distribution of laptops, and estimates the probability for the recommendation system.

COLOR NAMING SYSTEM

- To reduce the redundancy in selection of colors for website making, project, blogging, newsletter and online graphics.
- Built a program that takes Input color name and generates RGB, HSL, and Hex code with the respective code in a plot.

AUTOMATE BOARD GAME

- Program the playing of a board game, board is an object and players are distributed processes, written in **DistAlgo**.
- A board object can encapsulate a representation of board, moves, winning, drawing criteria, and the show of a board.

PANDEMIC TRAJECTORY

- Built a script to extract data from json file from a government website to showcase data of COVID-19 current scenario in a file with graphs, diagram and trajectories to visually analyse daily cases with physical recordings.

INTERNET OF THINGS CONTROLLER

- Built a prototype to control the hybrid energy system using ESP8266 wifi module and programmed in **C**.
- **Internet Of Thing** helps to switch the power supply between wind energy and solar energy of a house through secure website when the grid supply is off.

PUBLICATIONS

Google Scholar

- Prakhar Srivastava, et al. "IOT based Controlling of Hybrid Energy System using ESP8266", IEEMA Engineer Infinite Conference (eTechNxT), New Delhi, pp.1-5, June 2018.