Prakhar Srivastava

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Education

Stony Brook University — Stony Brook, NY
M.S. Computer Engineering - 3.42 GPA — *2021 – 2022*
- Advised by Prof. Alex Doboli - Research Project: Computer Recommendation System - CompGAN.
- Selected Coursework: Computaional Models, Embedded Systems, Principle of Programming Languages.

DIT University — Dehradun, IN
B.Tech. Electrical Engineering — *2013 – 2017*
- Selected Coursework: Operating Systems, Engineering Mathematics, Wireless Communication.

Skills

Languages: Python, C++, MATLAB, JAVA, SQL, HTML/CSS/JS, Proteus design, AutoCad, Labview
Databases/Frameworks: MySQL, MongoDB, Flask
ML Libraries: Pandas, NumPy, Matplotlib, Selenium, BeautifulSoup, Scikit-learn, OpenCV, PyTorch, Keras, TensorFlow
Tools/Operating Systems: PyCharm, Jupyter, Google Colab, PyCharm, IntelliJ, VS Code, Git, Linux, Windows

Experience

Solera Life Sciences Pvt Ltd. — Delhi, IN
Python Developer Intern — *Oct 2020 – Jan 2021*
- 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.**

Monteage Technologies Pvt Ltd. — Delhi, IN
Electrical Engineer — *Jan 2018 – Sep 2020*
- 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 a work of 80% reduction in time taken for the 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.**

Hind Rectifiers Ltd. — Dehradun, IN
Electrical Engineer — *July 2017 – Jan 2018*
- **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.

Projects

Comp-GAN Recommended System – *Python, TensorFlow*
- 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.

Generate Colorcode – *Python, Matplotlib*
- 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 – *Python, Matplotlib*
- 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 – *Python, Openpyxl, Xlsxwriter, Json*
- 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 – *Arduino IDE, C*
- 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. Google Scholar