

# Prakhar Srivastava

+1(631) 428-7337 | [prakhar.srivastava054@gmail.com](mailto:prakhar.srivastava054@gmail.com) | [linkedin.com/in/prakhar45srivastava](https://www.linkedin.com/in/prakhar45srivastava) | [prakharsri45.github.io](https://prakharsri45.github.io)

## Education

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### 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: Computational 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

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**Languages:** Python, C++, MATLAB, JAVA, 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

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### 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.
- Built scripts for the website(cdbene.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

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### 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](#)