

# Prakhar Srivastava

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## Education

### Stony Brook University

*Master of Science, Computer Engineering - 3.42 GPA*

- Relevant Coursework: Computational Models, Embedded Systems, Modern Sensors in AI Apps, Image Processing, Principle of Programming Languages.

Stony Brook, NY

*Expected May 2022*

### DIT University

*Bachelor of Technology, Electrical Engineering*

- Relevant Coursework: Operating Systems, Engineering Mathematics, Wireless Communication.

Dehradun, India

*July 2013 – May 2017*

## Skills

**Languages:** Python, C/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, IntelliJ, VS Code, Git, Linux, Windows

**Transferable:** Research, Problem Solving, Time Management, Database management, Teamwork and Collaboration

## Experience

### Solera Life Sciences Pvt Ltd.

*Python Developer Intern*

Delhi, India

*Oct 2020 – Jan 2021*

- Built scripts for the website ([www.cbdbene.com](http://www.cbdbene.com)) to visually examine the web-page errors and helps to debug the responsiveness of the website using **Selenium**, **BeautifulSoup**, **Pandas**, and **Numpy**.
- Created scripts to automate update of data files on company website and customized it as seen from a mobile phone with all the formatting of the pages using **Selenium**, **Pandas**, and **Numpy**.
- Designed and ran scripts and queries to retrieve data by developing views and managing client databases using **MySQL**.

### Monteage Technologies Pvt Ltd.

*Electrical Engineer*

Delhi, India

*Jan 2018 – Sep 2020*

- Focused on clients structural 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 which result to 80% reduction in time taken for the large-scale user provisioning.
- Implemented the contouring method for cleaning and processing thermal images captured using FLIR camera in **MATLAB**.
- Evaluated a semi-analytical technique in **MATLAB** to generate a homogeneous magnetic field for rectangular and circular coils.

### Hind Rectifiers Ltd.

*Electrical Engineer*

Dehradun, India

*July 2017 – Jan 2018*

- **Quality Control(QC)** engineer followed Six Sigma for secure and efficient computing-based technologies using **MATLAB**.
- Monitored and inspected the quality 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

*Jun 2021 – Aug 2021*

- Advised by Professor Alex Doboli - Research Project: Generative model used for adversarial minimax game and trained two models, generative and discriminative model.
- Captured the data distribution of laptops, and estimated the probability for the recommendation system.

### Generate Colorcode – Python, Matplotlib

*Feb 2021 – May 2021*

- 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

*Feb 2021 – May 2021*

- Program the playing of a board game, where 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

*Jun 2020 – Aug 2020*

- 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++

*Jan 2017 – May 2017*

- 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](#)