

SHIVANG DUBEY

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[GitHub Profile](#)

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EDUCATION

[B.Tech.] Electronics and Comm. Engineering	2019-2023	Guru Gobind Singh Indraprastha University [BPIT], Delhi	9.46 CGPA
CBSE (Class XII)	2019	Mount Abu Public School, Delhi	80.2%
CBSE (Class X)	2017	Mount Abu Public School, Delhi	10 CGPA

EXPERIENCE

SUMMER RESEARCH INTERN | POLYTECHNIQUE MONTREAL, CANADA (May'22-July'22)

- Working with **Reinforcement Learning** to detect network anomalies, recognized outliers with an accuracy of **80%**
- Under the supervision of Professor Soumaya Cherkaoui at Polytechnique Montreal, wrote code and compared the **Deep Q Learning model** to other machine learning models on the same outlier detection dataset
- Tools and Libraries: TensorFlow, Keras, Git, GitHub, LaTeX**

RESEARCH INTERN | INDIAN INSTITUTE OF TECHNOLOGY, DELHI (June'21-August'21)

- Researched over 150+ companies/start-ups to identify the reason of failures and successes of its products in market
- Modeled case study about a product to assist in boosting its reach by numerical and qualitative analysis
- Forecasted increase in the sales by applying 'Segmentation, Targeting and Positioning' model and 4Ps framework
- Qualitative Data Analysis, Interpretation and Case Study**

PYTHON DEVELOPER INTERN | TIFFINIA (January 2021)

- Contributed to Food/Conglomerate datasets. For dimension reduction, I visualized the data and used the **PCA technique**
- The data learning curve was created with greater than **93%** accuracy
- Libraries used: NumPy, Pandas, Matplotlib, Seaborn and scikit-learn**

ACADEMIC PROJECTS

COVID-19 DETECTOR USING CHEST X-RAYS: [Source Code](#)

- [Python] COVID-19/Infected cases were detected using a positive case and a normal case image dataset. Gradient Descent and CNN Classifier were used to optimize the process. Accuracy **more than 90%**
- Deep Learning and Model Training using **KERAS** and **CNN Algorithm**

GROCERY STORE SCRAPER: [Source Code](#)

- [Python] Data scraped from all products listed on the online grocery store, including Price, Description, Quantity, and Brand, and saved in a reusable format for Data Analysis and operations
- Data Scraping and Data Automation using **Selenium and BeautifulSoup4**

POSITION(S) OF RESPONSIBILITY

- Author** | [SymPy Package](#) (Open-Source Contribution)
- Contributed to SymPy's GitHub repository for enhancement and deployment
- Volunteer** | [PyCon India 2021](#) (March'21 – September'21)
- Team Lead** | [#define Technical Society](#) (August'20 -) | College Technical Society

SKILLS

- Languages:** Python, C++, C, and SQL (Database)
- Key Skills:** Data Science (Analysis-Mining-Visualization), Web Scraping, Machine Learning, Deep Learning, Research
- Tools/Libraries:** PyTorch, MATLAB/Octave, OpenCV
- Circuit Simulation:** LTSpice, Cadence Virtuoso | HDL
- Certified in Python, [Data Science](#) (Coding Blocks), [NLP](#) (Coursera), Data Structure-Algorithms and [SQL](#)

ACHIEVEMENTS & AWARDS

- Received an award for a summer 2022 **Mitacs Globalink Research Internship** in Canada
- With over **80 participants**, led a webinar on Git and GitHub for beginners
- Finalist:** IEEE x BPIT Hackathon "Break the Shackles 3.0" 2021
- Smart India Hackathon (SIH) 2022 **College Finalist**