

Shivang Dubey

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Portfolio

EDUCATION

- Guru Gobind Singh Indraprastha University** BPIT, Delhi
Bachelor of Technology in Electronics and Communication; CGPA: 9.50/10.00 Aug 2019 - Jun 2023
Courses: Analog Electronics, Data Structures and Algorithms, Digital Signal Processing, Digital Communication, Database Management System
- Mount Abu Public School** Delhi, India
High School; Grade: 80.20/100.00 Apr 2018 - May 2019

SKILLS SUMMARY

- Languages:** C++, C, Python, SQL
- Tools:** GIT, Matlab, PyTorch, Tensorflow, KERAS, OpenCV, scikit-learn, LaTeX, BeautifulSoup4 (bs4), Selenium
- Key Skills:** Data Science (Analysis-Mining-Visualization), Web Scraping, Machine Learning, Deep Learning, Research

EXPERIENCE

- Polytechnique Montreal** Montreal, Canada
Research Intern - Prof. Soumaya Cherkaoui May 2022 - Jul 2022
 - Reinforcement Learning:** Collaborated with a PhD student to develop a Deep Q Learning model for a network intrusion detection system. The obtained accuracy was greater than 79%
 - Comparative Analysis:** Built machine learning models for the same Network Intrusion Detection System, including Support Vector Machine, Random Forest Algorithm, and Convolution Neural Network, and compared the results to the Deep Q Learning model
- Indian Institute of Technology Delhi** Delhi, India
Research Assistant - Prof. Biswajita Parida Jun 2021 - Aug 2021
 - Qualitative Data Analysis:** 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
 - Case Study:** Forecasted increase in the sales by applying 'Segmentation, Targeting and Positioning' model and 4Ps framework
- Tiffinia - Start-Up** Delhi, India
Python Developer Intern Jan 2021
 - Data (Pre)Processing:** Contributed to the datasets Food/Conglomerate. I used the PCA technique for dimension reduction. The data learning curve was created with greater than 93% accuracy
 - Data Visualization:** The data was visualised in accordance with the models used, using the Python libraries Matplotlib and Seaborn, for better data analysis and prediction

ACADEMIC PROJECTS

- COVID-19 Detector:** 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. (Deep Learning and Model Training using KERAS and CNN Algorithm. Accuracy more than **90%**)
- Face Recogniser:** Created the model to detect both live and static faces. The model draws a box around the face with a suitable detection rate (Model Detection model trained using OpenCV and Cascade Classifier Algorithm. Accuracy more than **97%**)
- Online Grocery Store Scraper:** Data was scraped from all products on the online grocery store, including Price, Description, Quantity, and Brand, and saved in a reusable format for Data Analysis and operations

AWARDS AND ACHIEVEMENTS

- Mitacs Globalink Research Internship:** Fully funded research internship position at a Canadian university
- Smart Indian Hackathon 2022 College Finalist:** Top-10 in college to represent the team in additional SIH rounds
- Break the Shackles 3.0 Finalist:** Finalist in inter-college technical hackathon organised by the college and IEEE

POSITION OF RESPONSIBILITY

- Author - Open Source Contribution:** Contributed to SymPy's GitHub repository for enhancement and deployment
- Volunteer:** Feb 2021- Sep 2021 **PyCon India 2021** Pythonistas' Largest Conference in India
- Mentor:** Aug 2020 - Sep 2022 **HashDefine** College Technical Society; Mentored students in a variety of software development-related fields, such as artificial intelligence