

Vatsal Agarwal

vatsalagarwal_2k17mc119@dtu.ac.in | [in Vatsal Agarwal](#) | [vatsalagarwal09](#) | [vatsalagarwal.tech](#)

EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY

B.Tech - Mathematics And Computing

Expected May 2021 | Delhi, India

CGPA(Till 3rd Year) - 8.96 cgpa

M.M. PUBLIC SCHOOL

Completed in 2017 | Delhi, India

CBSE(2017) - 94.6%

FATHERSON SENIOR SECONDARY PUBLIC SCHOOL

Completed in 2015 | Bijnor, India

CBSE(2015) - 10.0 cgpa

SKILLS

• C • C++ • HTML • JavaScript • CSS • MySQL • Node.js • Express • MongoDB • PostgreSQL • Bootstrap Familiar:

• Git • Firebase • Socket.io • React • PHP • MVC • Neural Network • PCA • Fuzzy Logic

COURSEWORK

UNDERGRADUATE

• Data Structures
• Algorithm Design And Analysis
• Database Management System
• Operating System
• Objected Oriented Programming
• Differential Equation
• Financial Engineering

ONLINE COURSES

• Web Developer Bootcamp
• C++ With Data Structures

ACHIEVEMENTS

• 2017 School Topper in 10+2
• 2017 Maulik Bharat 10+2 award in association with Cultural Ministry of India
• 2015 All round performance in 10th and clearing NTSE Stage-1

POSITIONS

• Corporate | Publicity | PR Organizer | Paper Reviewer | ICAPIE
• Head, Publicity, ICAPIE, 2019
• CoHead, E-cell, DTU, 2019
• Life Time Member, CAPIER, DTU
• Volunteer, ICRAPAM

EXPERIENCE

KUBIXSQUARE PVT. LTD. | WEB DEVELOPER INTERN

June 2020 - Present

- Building various modules for the ERP Software to automate day-to-day tasks.
- Completed financial and registration module using Node, Express and Postgre.

OPTUM | UNITEDHEALTH GROUP

June 2020 - July 2020 | Virtual Internship

- Online industrial training and e-learning experience in MySQL and JavaScript.

JPMORGAN CHASE AND CO. | INSIDESHERPA

May 2020 | Virtual Internship

- Established a Stock Price Data Feed using JPMorgan Chase frameworks and tools and displayed data visually for traders.

BHAROSA TECHNOVERSE PVT. LTD. | WEB DEVELOPER INTERN

Oct 2018 - Dec 2018 | Delhi, India

- Developed new web pages and modified existing content for the official website.
- Understood basics of mutual fund and acted as facilitator for WealthSimple app.
- Gained insights into backend technologies PHP, MVC, Yii, MySQL, Xampp.

PROJECTS

COVID-19 NEWS (APRIL 2020)

- Developed a portal to get latest updates on COVID-19 stats and news.
- Incorporated statewide COVID-19 numbers and statistical representation using graphs.

INTRUSION DETECTION SYSTEM WITH DEEP NEURAL NETWORK ON CSE-CIC-IDS2018 | ONGOING RESEARCH PAPER (NOV 2019 - PRESENT)

- Pre-processed data with 15 Million+ entries with 80 features. Reduced features to get 34 distinct features using PCA.
- Developed a Deep Learning model trained predicted network intrusion with 99.45% accuracy.

ETHICAL HACKING | CRYPTUS SECURITY PVT. LTD. (FEB'19)

- Made a payload check and prepared it to attack and exploit the sample android, which can be operated from host of payload.
- Created a credential harvester which makes victim enter their credentials and send them to host.

DTU DEVELOPERS NETWORK (JAN 2019 - MARCH 2019)

- Developed a college exclusive portal that aims to inculcate a more opportunistic coding environment among budding coders.
- Developed complete User Interface and parts of backend; involved in the RnD work along with the core team.
- Technical Specifications: Bootstrap, Express, NodeJS, MongoDB; and various Middleware : passport, nodemailer, multer.

PUBLICATION - STUDY AND APPLICATIONS OF FUZZY SYSTEMS IN DOMESTIC PRODUCTS | LNME, SPRINGER (ISSN: 2195-4356)

- Studied about fuzzy logic, its model, MATLAB implementation and discussed its application in various domestic products.
- Suggested its application in domestic iron and discussed benefits.