

Ujjawal Aggarwal

Computer Engineer

Final Year Computer Engineering student from Trinity College Dublin Looking for Entry-Level Technology Roles 2021 mainly based on Software Development and Machine Learning. I will give my best-effort knowledge to reach the organization's goals and objectives of the computer science field.

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USA B1/B2 Visa Holder ✈

EDUCATION

Trinity College Dublin, Ireland

Bachelors' in Computer Science Engineering

September 2019 – Present Expected Grad: 2021 GPA: 11.1

- **Relevant Courses:** Data Structures and Algorithms, Probability and Statistics, Mathematics V, Computer Networks, Deep Learning, Software design Analysis.
- **Research Paper:** Working on "Robust federated learning approach in a heterogeneous environment" under the Supervision of Mr. Cagri Ozcinar and Prof Aljosa Smolic.
- Mentor at S2STCD.
- Autonomous Researcher at Formula Trinity.

Thapar Institute of Engineering and Technology, Patiala

Bachelors' in Computer Science Engineering

August 2017 – May 2019 CGPA: 8.32

- Completed first 2 years at TIET with 8.32 CGPA and took a transfer to TCD to continue my undergrad degree.
- PR head at Student Alumni Interaction Cell.
- Executive Member at Rotaract Club, Patiala.

Dewan Public School International, Meerut, India

All India Senior School Certificate Exam

April 2016 – May 2017 Result: 87%

WORK EXPERIENCE

NIFLR, Bangalore

Summer Intern

May 2020 – July 2020

Niflr is a store technology company running stores in apartment complexes.

- Accomplished 82% accuracy in Product identification task using TensorFlow backend Convolutional Neural networks.
- Pre-processing the images data like Data Augmentation in training data and testing data.

NIFLR, Bangalore

Summer Intern

May 2019 – July 2019

- Worked on a Product Recommendation Algorithm in a retail store using Machine learning techniques.
- Prepared the training data and applied Content and Collaborative Filtering to data.

EXTRA-CURRICULAR

- **Remote Computer Tutor at Age Action Volunteer, Dublin** (Nov 2020 - Present)
- **Model-Based Problem-Solving workshop At Intel, Leixlip, Ireland** (Oct 2019)
- **Harvard National MUN at Boston, USA** (Feb 2019)

SKILLS

Software Development
Data Science
Machine learning
Big Data/Hadoop
Python(3+yrs)
Computer Vision

C/C++(2+yrs)
Verilog(2+yrs)
MySQL
GitHub
Mathematics/Stats
AWS Services

HACKATHONS

MineRL NeurIPS 2020 Competition (Dec 2020 - Present)

- We're working in team 6 and developing systems that can obtain a diamond in Minecraft from raw pixels using only 8,000,000 samples from the MineRL simulator.
- In this environment, the agent begins in a random starting location without any items and is tasked with obtaining a diamond and successfully cleared 1st round.

Trinity Employability Award 2020 (Nov 2020 – Dec 2020)

- It provides an invaluable opportunity to increase the career readiness by helping me to articulate the Trinity Graduate Attributes.
- It will equip us with a set of specific employability skills to help us succeed in the workplace and I was runner up.

E-Yantra Hackathon, IITB (Aug 2020 – Dec 2020)

- Building a Sankat Mochan Robot, to deploy in a warehouse to monitor safety conditions in different units.
- The brain of the robot is powered by an FPGA to control its sensors and actuators to perform quick safety surveys of the shop floor.

Adobe Analytics Challenge 2020 (Sept 2020 – Oct 2020)

- Analyzing the data provided by Nike using Adobe Analytics Workspace.
- Help them to Drive the users down the member funnel and Targeting the best users.

PROJECTS

Modelling Earthquake Damage (Sept 2020)

- The ensemble model consists of GBDT, NN, RF coded in Python that predicts the level of damage based on different features of the building.
- It was a personal project and Acquired a position under the top 500 on the leader board.

Covid-19 Vulnerability Test (Jan 2020 – April 2020)

- COVID Test by providing information like symptoms, age, travel history, and location they can know how vulnerable they are to this disease.
- To provide the connectivity, we have built this test on TCP/IP Multi-Client Server, with the help of Socket, Threading, and different libraries in Python.

Huddle Android application (August 2019 – Dec 2019)

- Android Application for people all around the world to have a reliable meeting without the hassle of time zone problems.
- The host can host a meeting and other users will fill out a suitable time range, and the application will suggest a suitable time for the meeting, and they can collaborate.