

Arijit GUPTA

Pre-Final Year Undergraduate

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EDUCATION

Present | Birla Institute of Technology and Science, Pilani, Goa | BE in Electronics and Instrumentation
August 2018 | CGPA : 7.48/10 (4 semesters)

WORK EXPERIENCE

- July 2020 | **Microsoft | Software Engineer Intern**
May 2020
- > Was one of the select 33 second year interns among all 500+ interns
 - > Migrated a static website to a dynamic website which implemented systematic polling of APIs and real time update of components in ReactJS and deployed the web service on Azure
 - > Added a system to existing .NET MVC project to integrate and run ReactJS pages on it with the use of transpilers and bundlers
- [JavaScript](#) [ReactJS](#) [C#](#) [AWS](#)
- May 2020 | **Tessellate Imaging | Machine Learning Intern**
Feb 2020
- > Worked on adding features such as cloud deployment of deep learning models, model optimization and resolving bugs in a set of open source tools
 - > Helped in creating real-world applications such as automated plant-leaf disease classification, weapon detection and animal detection using custom libraries
- [Python](#) [PyTorch](#) [MXNet](#) [TensorFlow](#)
- Sept 2019 | **WorldQuant LLC**
May 2019 | *Research Consultant*
- > Built robust financial signals to detect arbitrage in international financial markets
 - > Selected to be a part of the research consultant programme after breaking into the top 1 percentile of participants of the WorldQuant challenge
 - > Created algorithm-based models using Python and propriety libraries that seek to predict movements of global financial markets
- [Python](#)

SELECT PROJECTS

RASOEE

AUGUST 2020

Submission for PyTorch Summer Hackathon 2020

 [Code](#)  [Website](#)

- > Web and android application that identifies food dishes from images. The image classification model is trained in Pytorch using a EfficientNet B2 model as base, and some pre-processing done on the images.
- > The data of 308 unique classes of food items was scraped from the web and cleaned. The mobile application, built with Kotlin, runs completely on the edge and no active internet connection is required to identify the dishes.
- > The application also takes an image input, and returns the identified food item, its primary ingredients, link to a recipe and link to video tutorials for that dish.
- > The website is built with Django and hosted on Heroku

[Python](#) [Django](#) [Kotlin](#) [PyTorch](#)

CHAINVOTER

JULY 2019

Submission for Microsoft CodeFunDo++ Hackathon

 [Code](#)

- > Web and mobile application for secure online voting using blockchain.
- > Implements two-factor authentication of voters using face recognition with Microsoft Face API and MongoDB database.
- > In the blockchain the creation of block uses User ID(containing Name, Party, Constituency, Aadhaar, Voter ID, and Signature(Name, Aadhaar, Voter ID) and hashes them. Also checks if the vote is a duplicate before adding it to the ledger

[Javascript](#) [Angular](#) [Typescript](#) [CSS](#)

OTHER PROJECTS

- > OCR Sudoku Solver
- > Double DQN for Atari Pong in OpenAI Gym
- > Text Cipher Algorithms in C++
- > Object Detection in Real Time and in Images using YOLO v3
- > Forest Cover Binary Classification using an Ensemble Model
- > Russian AI Cup 2019 Bot (1st Round Qualified)

TECHNICAL SKILLS

Proficient	Python, C++
Comfortable	Shell, C#, Javascript, \LaTeX
Basic Knowledge	MATLAB, Ruby, Typescript
Frameworks	PyTorch, TensorFlow, Keras, Angular, ReactJS
Tools	Git, NumPy, Pandas, Scikit-Learn

ACHIEVEMENTS

Scholarships :

- > 2017 • Uttar Pradesh Science Talent Search Exam (UPSTSE) Scholarship by Govt. of India

Competitions :

- > 2019 • Microsoft CodeFunDo++ Hackathon : **Only 2nd year team** in institute top 3
- > 2019 • Microsoft Hackday 2.0 : First Runners-Up in institute

MISCELLANEOUS

TECHNICAL WRITER @ Towards Data Science | You can find my articles [here](#)

CS50X PUZZLE DAY | Solved 6 out of 8 problems in **Harvard's CS50x Puzzle Day 2020** which involved critical thinking, analytical skills and mathematics

STUDENT GUIDE | Mentored 8 freshmen through their first year

HOBBIES | **Drums** (Performing member of the institute music society), **Quizzing** (Active member of the institute quiz club)