# APURV MISHRA

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## Skills

**PROGRAMMING LANGUAGES**
Python
C++
R
HTML
Ruby
Haskell

**DATA SCIENCE**
Machine Learning
Data Analysis
Deep Learning
Data Visualization

**LIBRARIES**
Matplotlib
OpenCV
SeaBorn
BeautifulSoup
Requests
Selenium
NumPy
Pandas
PyTorch
Flask

**DATABASE MANAGEMENT**
SQL
MySQL
PostgreSQL
Graql
Grakn

## Education

**The University of Edinburgh**                                     Sept. 2018 to Current
BEng(Hons.) Computer Science 2022

**Delhi Public School Noida**                                      Apr. 2010 to May 2018
AISSCE Science 2018
AISSE 2016
Graduated class 12th with cumulative average of 96%
Graduated class 10th with a 10 CGPA

## Projects

**LinguaStream**                                                   Mar. 2019 to Current
- LinguaStream is a real time translation and transcription service along with an analysis and reference platform.
- There are two parts of the project:
  1) A web app to store, analyze and live view lectures/meetings
  2) A real time captioning service to overlay subtitles over your screen
- Speech to Text and Text Translation are done through Google Cloud APIs.
- Captioning service is written in Python using tkinter, webapp is in Flask
- User interface is built with Vue.JS

**DIY Game**                                                       Mar. 2019
- DIY Game is a platformer game where the users can draw the levels on a piece of paper.
- Uses OpenCV to detect the different colours and the edges of the sketch on to create the level.
- This level can be played on a Django web app, the game is HTML5 based.
- App is deployed on Google Cloud Platform

**Healthify**                                                      Mar. 2019
- Healthify is a personalized treatment recommender system using a Cox proportional hazards deep neural network.
- It is the implementation of the DeepSurv algorithm in a web app, used to recommend personalized treatments.
- The model is trained in Theano and is queried by a web application built with Flask

**GoodEats**                                                       Jan. 2019
- GoodEats is a food recipe recommendation android application based on your physical attributes and activity levels.
- Scraped over 20000 recipes,calorific and nutritional values from the internet with BeautifulSoup and Python
- Analysed the data with help of Matplotlib, Seaborn and Pandas
- App developed in Kotlin

**Alcommender**                                                    Dec. 2018
- Alcommender is an alcohol recommending telegram bot that suggests the best alcohol for you based on your current mood/emotion and budget that you have.
- It also gives you directions to the nearest cheapest pub.
- Uses Face API from Azure, Google Maps API and is coded in Python

**EasyShop**                                                       Nov. 2018
- EasyShop is an audiovisual interaction(chatbot) based easy shopping experience using artificial intelligence and cloud.
- Using deep learning based object recognition and further improving the results using named entity extracting text analysis and then scraping best deals from various e-commerce websites and displaying the results in the augmented reality-based visual system to get the immediate feedback.
- The payment processing is done with the integration with Visa API .
- The whole end to end solution is deployed on the Azure cloud.

**tank-bot**                                                       Oct. 2018
- tank-bot is an automated bot to play a server based multi-player tank game designed by Morgan Stanley for a hackathon challenge .
- It involves extensive use of algorithmic movement patterns, a scoring algorithm to find the best opponent to target and handling server communication.

**Magic Mushrooms**                                                Nov. 2018
- Magic Mushrooms is an easy to use webapp to tell you whether your mushroom is edible or not.
- This is implemented using deep learning based image recognition, trained by scraping images of mushroom from the web and cross validated by classifying them into separate tags.
- Webapp is made with Javascript and HTML/CSS and model trained with Clarifai API and Python.

## Awards

**Winner at HackKosice 2019 · T-Systems**                          Mar. 2019
Won the best translation system challenge by T-Systems.

**Winner Cyber Defence Exercise 2019 · The University of Glasgow**   Feb. 2019

**Winner Local Hack Day · MLH**                                    Dec. 2018
The University of Edinburgh

**Winner OxHack 2018 · Oxford University**                         Nov. 2018

**Runner-Up Tank Wars · Morgan Stanley**                           Oct. 2018
Morgan Stanley Challenge at GUTS Hackathon 2018

**Gold Medal · Delhi Public School Noida**                         Dec. 2017
For six consecutive years of academic excellence

## Activities

Edinburgh University Trading and Investment Club · Member

CompSoc · Member

Edinburgh University Pool and Cue Sports Club · Member