Vishal Agarwal

SECOND YEAR UNDERGRADUATE , CIVIL ENGINEERING

Indian Institute of Technology Kanpur

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"Enthusiastic to Learn more and more"

Education

Indian Institute of Technology Kanpur

BACHELOR OF TECHNOLOGY, MAJOR IN CIVIL ENGINEERING

2017 - Present

Kanpur, India

Cumulative Performance Index/CGPA: 7.2/10.0

Awards and Achievements

- 2015 Merit Certificate Awardee, Overall 10 CGPA, Grade 10 national examination
- 2017 Merit Certificate Awardee, Overall 92%, Grade 12 national examination
- 2017 JEE Advance, Compete with 0.22 million students and come under top 4% students.
- 2017 **JEE Mains,** Compete with 2.2 million students and come under top 0.4% students.
- 2017 INSPIRE Scholarship Awardee, Government of India

Work Experience

Summer Internship, Under Prof. Sandeep Shukla [HOD CSE-IIT Kanpur]

Full Stack Developer IIT Kanpur May 2018 - July 2018

- Awarded Excellency Award by Prof. Sandeep Shukla for Excellent Performance.
- Build a WEB APP CONECTAR to connect people of similiar interests across the globe.
- Applied the 'Crypto' Module to Secure User Account with an N Users, N+2
 Databases.Created a Chat platform using the Sockets.io and improved the MongoDB Search Algorithm.
- Github Repository 🖸

Projects

Deep Learning in the Browser

Tensorflow. Js Core & Layers API Google's most Recent Project

- Project using the Tensorflow-Js Library proposed by Google in Google-IO-2018.
- Contains Deep Learning models and examples like Linear Regression, Polynomial Regression, XOR Problem Solver, AI Pong, Handwritten Digit Recognition, Color-Classifier.
- Github Repository 🖸

Machine Learning in the Browser

ML5.Js Higher-level API Built over Tensorflow.Js

- Project using the ML5-Js Library built upon the **Tensorflow.Js** model which was proposed by **Google** in the year **2018**.
- Contains ML models and examples like PoseNet, YOLO, Video-Classifier, Image-Classifier, LSTM Generator, Video Modal-ling using Regression, Feature Extractor, Style-Transfer.
- Created Clone of Google Teachable Machine using a different regression model and algorithm.
- Github Repository 🖸

Neuroevolution and A*

A* Path-Finding Algorithm
Artificial neural networks (ANN)

- Implemented the A* Path-Finding Algorithm to find the most optimum path from a bunch of obstacles over a grid in the browser only.
- Used **Neuroevolution** to generate **Artificial neural networks (ANN)** to solve the **Flappy bird** game in the browser only.
- Github Repository 🖸

Technical Strengths

- Machine Learning: Tensorflow.Js,ML5.Js,NLTK,Tensorflow,Keras,SKlearn,NumPy,Pandas.
- *Programming:* C,Python,Dart,C#.
- App Development: Flutter, Xamarin-Forms.
- Web Development: Front-End Development, Back-End Development, MEAN Stack.
- Tools: Git, LATEX, OpenCV, Matplotlib, Tesseract-OCR.

Hackathon Achievements

App Development Hackathon

Talent-Go Code-Gym Challenge 2018 6-July-2018 - 10 July-2018

- Secured 7th Position all over World among 1300 Participants.
- Received invitation to the World Code Gym, Vancouver, Canada in Dec 2018.
- Created an online documentation system "Resturante" to help chefs to document their recipes and play around with the new recipes they create to perfect their recipes time-by-time.
- Github Repository 🕥

24 hours Android App Development Hackathon

Techkriti and Capgemini IIT Kanpur

15-March 2018 - 18-March-2018

- Secured 1st Position among all Campus Community.
- Build a interactive and functional Android app Named 'PMAY' under 24 hours using **MIT App** inventor.
- Github Repository 🖸

Relevant Coursework

- Machine Learning
- Deep Learning
- BlockChain
- Linear Algebra
- Multi-Variable Calculus

Extra Curricular Activities

• Head Web - Society of Civil Engineering

Kanpur, India

• Head Web - Science and Technology Council

• Head Software-Corner - Techkriti 2019

Kanpur, India

Kanpur, India