

VISHAL AGARWAL

Senior Undergraduate, Dept. of Civil Engineering
Minor in Industrial and Management Engineering

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🌐: Vishal Agarwal | in: Vishal-Agarwal

EDUCATION

Year	Degree/Certificate	Institute	Performance
2017 - Present	B.Tech	Indian Institute of Technology, Kanpur	7.52/10.00
2017	Grade 12 (CBSE)	DAV Public School, Kota	92 %
2015	Grade 10 (CBSE)	DAV Public School, Kota	10.0/10.0

AWARDS AND ACHIEVEMENTS

- 2019** Represented **IIT Kanpur** at **National Level** for Microsoft Academic Accelerator Program at Hyderabad and Bangalore
- 2019** Received **A*** grade in the course-work **Financial Economics**; Awarded to **Top 1% students** in a course at IIT Kanpur
- 2018** Achieved an All India Rank (**AIR**) **7** in the **World Code-Gym Challenge** among **1700+** participants across the nation
- 2017** Received **INSPIRE Scholarship** award by **Department of Science and Technology** among **100** students across IITK
- 2017** Secured All India Rank (AIR) of **6467** in JEE Advanced'17 and AIR **8625** in JEE Mains'17 among **~15 Lakh** students

WORK EXPERIENCE

Deskera | Software Development Intern **April 2020 - June 2020**

Supervisor: Mr. Prashant Majhwar (Sr. Technical Architect)

Pune (India)

- Objective** ■ Developing an **Angular Library** from scratch that assists **Web Component** scanning across **Angular Web Apps**
- Strategy** ■ Developed an **Extractor** to store (Target-Id) & map (Angular component) preserving relationship of components
- Optimized Library for **seamless integration** into core software base with single Configuration File & Event handler
- Deployed to **npm** with Documentations, Proof of concept and code-snippets for automated On-Boarding Set-Up
- Impact** ■ Successfully completed development & testing of Library (**Ngx-Drive**) (**Now in Production on Deskera Books**)
- Awarded a full time **Pre-Placement offer (PPO)**; Amongst **Top 5 out of 10** from IIT Kanpur to receive PPO

Ericsson | IoT Business Consultant Intern

December 2018

Supervisor: Mr. Pavan Kumar Kolahal (IoT Business Consultant)

Gurgaon (India)

- **Objective** :- Establishing **business case** & proposing an **optimal entry strategy** of **5G** Cellular connectivity for Cloud platforms
- Work focused on key strategic ideas from IoT perspective for developers to utilize **5G** Cellular connectivity with Cloud platforms
- Analyzed **developer reports** of connectivity services offered to various cloud platforms addressing the lack of stable connectivity
- Prepared comprehensive research studies of subject market including market size & growth (**Part of Ericsson mobility report'19**)

TECHNICAL ACHIEVEMENTS

Microsoft Code.Fun.Do | National Winner out of 500+ teams across India

Sep 2018 - Jan 2019

Supervisor: Mr. Pratik Golchha (Software Engineer)

Hyderabad (India), Bangalore (India)

- Developed a **Cloud based platform** containing **Chat-Bots** & low latency disaster awareness system with Azure & Google SDKs
- Modelled **Earthquake** data fetched from **USGS** using **seasonal ARIMA** time series and **Long Short-Term Memory** models
- Utilized Python and ChartJs to clean, scrap and visualize **Wildfire** data fetched from **NASA** for statistics and time series analysis

KEY ACADEMIC PROJECTS

Equity Trading

May 2020 - June 2020

Course Project, Prof. Shankar Prawesh (IME Dept)

IIT Kanpur

- Followed **Swing Trading** philosophy with **EMA crossover**, **MACD** and **RSI Index** indicators to manage 30 financial instruments
- Build an Optimal Diversified Portfolio utilizing **Markowitz model**; Computed sharpe ratio, return, volatility & covariance matrix
- Designed a model based on forecast returns & risk preferences to drive optimal asset allocation decisions using **Linear Programming**

RELEVANT COURSEWORK

* - Ongoing ** - Online Course

Applied Machine Learning	Financial Econometrics	Financial Engineering	Introduction to Economics
Probability & Statistics	Social Media Analytics*	Data structure & Algorithms**	Financial Economics

POSITION OF RESPONSIBILITY

Head Web | Udghosh, Inter College Sports Festival, IIT Kanpur

April 2019 - March 2020

- Leadership** ■ Spearheading a **4-tier team** of **160+ executives** to conduct one of the biggest sports festival in Asia
- **Recruited** and **Guided 10** Web executives and worked **collaboratively** by delegating chores and responsibilities
- Initiatives** ■ Initiated a **Cross Platform App** with **Cloud Messaging** to send-in notifications of events with **Flutter**
- Revamped registration, **automated** it for registration of **2000+** students from **80+** colleges across nation
- Developed an online **MCQ Quizzing platform** with **1000+** participants across nation to promote sports culture
- **Angular** framework with **Bootstrap** for modularity; Website Optimization with Backend in **NodeJs & Firebase**
- Impact** ■ Maneuvered a **130%** increase in reach of fest through ideation, development & execution of **online competitions**

Tech Manager & Core Team Member | BloodConnect Foundation, India

Feburary 2019 - March 2020

- Maintained BloodConnect's Official Exotel Service & Organised **Blood donation camps** in campus in collabration with Raktarpan

EXTRA-CURRICULAR ACTIVITIES

Social	■ Mentored a group of 6 freshmens in development of a Research portal for professors to list projects	2019
	■ Guided a group of 8 students in designing of an Cross Platform App similar in features to SAP2000	2019
Sports	■ Actively played Badminton as CPA in freshman year; Bagged 1 position in Badminton among all freshmen	2017
	■ Secured 1 position in Badminton at District level Twice; Participated in state level competitions	2014, 2015
Cultural	■ Participated in various Fine Arts events in GALAXY (an inter hall event of IIT Kanpur)	2017, 2018