VISHAL AGARWAL

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

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O: 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

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
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	
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 201

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)
 Full Stack Developer Intern
 May 2018 July 2018

IIT Kanpur Summer Of Code (Conducted by Nutanix and UPSIDC)

Kanpur (India)

- · Objective :- Narrowing down projects by extracting key ideas from projects offered by professors in accordance to student needs
- Utilized NLTK Library for NLP to generate Tags and summarize projects offered by professors to increase reach among students
- Developed a dynamic and Interactive web application with a Chat and Notification system using Web Sockets and VanillaJS
- Added support for uploading project files & fetching data from server in **JSON** format; Designed Backend in **NodeJs** & **MongoDB**

KEY ACADEMIC PROJECTS

WebApp Penetration Testing

May 2019 - July 2019

Supervisor: Prof. Sandeep Shukla (HOD CSE Dept)

IIT Kanpur

- Pen-tested Institutes registration portal using BurpSuite & OWASP ZAP; Produced POC and Solutions of reported vulnerabilities
- Mapped the entire platform and discovered vulnerabilities sensitive to Student data, Faculty data and institutes main server details
 Equity Trading
 May 2020 June 2020

Course Project, Prof. Shankar Prawesh (IME Dept)

IIT Kannu

- 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

TECHNICAL ACHIEVEMENTS

Microsoft Code.Fun.Do | National Winner out of 500+ teams across India Supervisor: Mr. Pratik Golchha (Software Engineer)

Sep 2018 - Jan 2019

• 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

PROGRAMMING ACHIEVEMENTS

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RELEVANT COURSEWORK

* - Ongoing ** - Online Course

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

TECHNICAL SKILLS

Programming	C, Python, JavaScript, TypeScript	Tools	Android Studio, Firebase, Burp Suite, Git
Libraries	Bootstrap, jQuery, Tensorflow	Utilities	Angular, NodeJs, MongoDB, Flutter

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 th	e biggest sports festival in Asia
	■ Recruited & guided 10 Web executives & worked collaboratively by de	legating chores & responsibilities
Initiatives	■ Initiated a Cross Platform App with Cloud Messaging to send-in noti	fications 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 acros	s nation to promote sports culture
	■ Angular framework with Bootstrap for modularity; Website Optimization wit	h Backend in NodeJs & Firebase
Impact	■ Maneuvered a 130% increase in reach of fest through ideation, development	nt & execution of online events

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 project	ts 2019
	■ Guided a group of 8 students in designing of an Cross Platform App similar in features to SAP20	00 <i>2019</i> -
	Organised Blood donation camps in campus in collabration with BloodConnect and Raktarpan	2018, 2019
Sports	Actively played Badminton as CPA in freshman year; Bagged 1 position in Badminton among all free	eshmen <i>2017</i>
	■ 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