**VISHAL AGARWAL** B:[vishalag@iitk.ac.in](mailto:vishalag@iitk.ac.in) Senior Undergraduate, Dept. of Civil Engineering H: (+91)-941-360-5678

Minor in Industrial and Management Engineering Š: [Vishal Agarwal](https://github.com/Vishal260700) *|* ¯: [Vishal-Agarwal](https://www.linkedin.com/in/vishal-agarwal-42a6a015a/)

**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**  **WORK** | Secured All India Rank (AIR) of **6467** in JEE Advanced’17 and AIR **8625** in JEE Mains’17 among *∼***15 Lakh** students  **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**](https://www.npmjs.com/package/ngx-drive) with Documentations, Proof of concept and code-snippets for **automated** On-Boarding Set-Up |
| *Impact* | Successfully completed development & testing of Library [**(Ngx-Drive)**](https://www.npmjs.com/package/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) 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 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**

**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

**PROGRAMMING 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

**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* | **Recruited & guided 10** Web executives & worked **collaboratively** by delegating chores & responsibilities  Spearheading a 4-tier team of 160+ executives to conduct one of the biggest sports festival in Asia |
| *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 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 projects *2019*  Guided a group of **8 students** in designing of an Cross Platform App similar in features to SAP2000 *2019*  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 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* |