

Avi Kumar Singh

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EDUCATION

NIT, TRICHY - B.TECH

MAJOR IN COMPUTER SCIENCE

MINOR IN ECONOMICS

Expected May 2022 | Trichy, India

Cum. GPA: 8.30/10.00

DEVI ACADEMY SENIOR SECONDARY SCHOOL

GRAD. APRIL 2016 | CHENNAI

CBSE : CGPA - 10.0/10.0

GRAD. APRIL 2018 | CHENNAI

CBSE : 93.6 %

LINKS

GitHub: [@avikumar15](https://github.com/avikumar15)

LinkedIn: [@avi-kumar-singh-1508](https://www.linkedin.com/in/avi-kumar-singh-1508)

Codeforces: [@avikumar15](https://codeforces.com/profile/avikumar15)

HackerRank: [@avikumar15](https://www.hackerrank.com/avikumar15)

COURSEWORK

Data Structure & Algorithms

Database Management System

Machine Learning

Artificial Intelligence

Operating System

Formal Languages and Automata

Combinatorics Graph Theory

SKILLS

PROGRAMMING LANGUAGES

• C • C++ • Java • Kotlin • Python

FAMILIAR LANGUAGES

• C# • Go • JavaScript

TOOLS/TECH

• CircleCI • Firebase • Game Dev • Git

• JUnit Tests • ML • Mobile Dev

• Scrapping • Scripts • Web Dev

MISC

• Android Jetpack • gRPC

• Coroutines • MVVM

CO-CURRICULAR

- [Volunteering Exchange](#) to Hanoi
- **Team Leader** Business Development at AIESEC in NITT

• **Online mentor** of maths for underprivileged students.

EXPERIENCE

VORTEX | WEBOPS | EVENT COORDINATOR

Jan 2020 – Present | NIT Trichy, India

- Coordinated Events of Vortex'20, the Annual National level technical symposium of CSE department, NIT Trichy. Now part of the **web operations** team.

DAILYOBJECTS | APPLICATION DEVELOPMENT INTERNSHIP

December 2019 – January 2020 | New Delhi, India

- Revamped the UI/UX of the **android app** at DailyObjects. Changes impacted 100,000+ app user. ([app-link](#))
- Followed a **test** driven approach to development.
- Simplified the app codebase by using **jetpack libraries**.

DELTA FORCE | SOFTWARE DEVELOPER

July 2019 – Present | NIT Trichy, India

- Official Coding Club and **web-team** of NIT Trichy. ([Delta Force](#))
- Developed multiple android and web-apps for college fests. ([Pragyan '20](#), [Aaveg '20](#), [NITTFEST '20](#), [Festember '19](#)) Festember'19 has **5000+** downloads.
- Mentored a project for Delta Winter of Code 2019-20. ([project link](#))
- Organised algos bootcamp and mentored freshers (**App and Game dev**)

TECHNICAL PROJECTS

QUICK MAIL CLI | PYTHON | CLI | GITHUB - [quick-mail-cli](#) | PyPI

Dec 2020 – Present

- Developed a **command-line interface** to send mail quickly and without any hassle.
- Utilised **argparse** and **google client library**. Followed the concept of abstraction using **zope**.

STOCK PRICE PREDICTION | ML | GITHUB - [ARIMA-GARCH-modeling](#)

Nov 2020

- Modelled a **Machine Learning model** to predict stock prices of firms, by using **ARIMA-GARCH modeling** and **sentiment analysis** using **VADER**.
- Achieved a **95% accurate** model.

AUTOMATE | E-RICKSHAW TRACKING APP | ANDROID APP | SPRING BOOT

February 2020

- Designed a pooling based cab booking application using **Google Map API**.
- Applied a **dijkstra based algorithm** is used which assigns rickshaw to the passenger. Factors like auto capacity, ETA, destination are considered in this algorithm.

DALAL STREET | ANDROID KOTLIN | GRPC | GO | [Web Link](#)

September 2019 - March 2020

- Developed a **virtual stock exchange game** with backend in **Go** and **GRPC** for managing communication between backend and frontend. ([server code](#))
- Contributed to frontend in app and web. ([app code](#)) ([web code](#))
- Implemented **push notification**, **OTP** and **referral code** features in app.

AWARDS

2020 Top 7 teams/ 50 teams

2020 Top 250 teams/ 2500 teams

2018 Top 8 teams/ 200 teams

Transfinitte'20 organised by NITT

Hackverse'20 organised by NITK

Qualified for NumPy second round