

SUJAY VIVEK | 22EE30029



ELECTRICAL ENGINEERING. (B.TECH+ M.TECH 5Y)

| EDUCATION | | | |
|-----------|----------------------------|-----------------------------------|--------------|
| Year | Degree/Exam | Institute | CGPA/Marks |
| 2027 | B.TECH ELECTRICAL ENG.(4Y) | IIT Kharagpur | 8.20 / 10.00 |
| 2022 | Karnataka PU (Class 12) | Base PU College, Bangalore | 95.00 % |
| 2020 | ICSE (Class 10) | Sudarshan Vidya Mandir, Bangalore | 97.00 % |

PROJECTS & INTERNSHIPS

Tech Subhead | Spring Fest | IIT Kharagpur [Tech: NodeJS, ReactJS, Three.JS, ReactNative] (Dec' 23 - Feb' 24) Spring Fest and College Prom Website: Made a full stack website for student registrations from more than 800 colleges in India.

- Implemented SignIn, SignUp features using Authentication, used QR code Tech to optimize providing accommodation.
- Used multiple APIs for fetching data, and made dashboards for every User. Incorporated a game made using Unity as well.
- Spring Fest App: Made a full fledged app using ReactNative and Expo for Android and ios users. Incorporated a map of our campus Improved efficiency of the app using **Metro bundlers** like lazy loading, tree shaking and used Image optimization techniques.

Spotify Clone App | Self Project [Tech: NodeJS, ReactJS, HTML, CSS]

(Nov' 23-Feb' 24)

Clone Website: Used Spotify Web APIs to fetch song and artist data. Implemented feature to play songs across multiple devices.

- Implemented Login, SignIn and SignUp using Spotify OAuth 2.0, and worked with React Context API and Reducer hooks.
- Improved on some features of Spotify by making a Dashboard for every user to show stats like Weekly Top Songs and Artists

Al Image Captioning Model | Self Project [Tech: CNN, RNN, Python, Computer Vision, Keras] (Nov' 23 - Dec' 23)

ML Model: Created a model trained over 80,000 image data that provides accurate captioning to any image upon user inputs.

- Improved accuracy of the Model using MaxPooling, Data Augmentation, Batch Normalization, and DropOut Technologies.
- Incorporated model in a Website, will launch it as a Service. Created user history page containing all the prompts of the User

Secretary | Communiqué | Tech Team [Tech: ReactJS, NodeJS, Express, MongoDB, LLMs] (Aug' 23 - Mar' 24) CV Review Portal: Integrated LLMs for Natural Language Processing, CV and chatbot responses with different frameworks.

- Made use of Node and Express, along with MongoDB for databases. Implemented Authentication using **JWT Auth** for users. Git for version control, and used AWS to deploy on cloud. Used **RESTful APIs** for communication with backend of website.

GMUN Website: Used ReactJS to make responsive website for student registrations taking part in MUN organized in the college.

Optimized Gallery of website by implementing Lazy Loading. Deployed on Vercel, and engaged by more than 2k students.

SKILLS AND EXPERTISE

Programming Languages: C++, C, Python, HTML, CSS, Javascript, Typescript, SQL, JAVA, Solidity | Platforms: Web, Windows Frameworks: Pandas, Numpy, Tensorflow, Keras, ReactJS, Scikit, React Native, NodeJS, Seaborn, Matplotlib, Scipy, Ethereum Tools: MongoDB, Unity Game Development, Android App Studio, Blender, Photoshop, Canva, Figma, Arduino IDE, Web3.js

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank of 1951 in JEE Advance Examinations 2022 out of a total of 1,55,538 candidates. (Top 1 %)
- Secured a 99.6 percentile all over India in the JEE Mains Examinations 2022 out of a total 10,00,000 students (10 lakh)

POSITIONS OF RESPONSIBILITY

Secretary | Communiqué | Official Soft Skills and Personality Development Society (Nov' 22 - Present)

- Organized the Global Model United Nations. Structurized Databases and played a key role in the Marketing of the event.
- Conducted the All India Placement Aptitude Test (AIPAT) and received an impressive registration count of 1500+ students.
- Lead the Software Team, and delivered instructions in **Web Development** to a cohort of **40+ Associates** in the society.
- Conducted CV Review and Mock Interview drives to assist students in their preparation for placements and internships.

Tech Subhead | Spring Fest | Social and Cultural Fest | IIT Kharagpur

- Worked in a team of **Tech SubHeads** to create a fully functional Spring Fest Official Website and the College Prom Website.
- Created an App and deployed it on PlayStore containing information related to the fest for the guidance of students outside.

COURSEWORK INFORMATION

Academic Coursework: Programming and Data Structures, Advanced Calculus, Electrical Technology, Linear Algebra, Transform Calculus, Signals and Systems, Analog Electronics, Digital Electronics, Probability and Statistics, Entrepreneurship and Innovation.

EXTRA CURRICULAR ACTIVITIES

- Part of the 3 player Squash Team of Radhakrishnan Hall of Residence in the General Championship held across halls in IIT KGP.
- Made a Remote Controlled SandRover while competing in the SandRover Challenge organized by Kshitij (Tech Fest at IIT KGP)
- Took part in multiple Open IITs and the Technology General Championship in Case Study at Radhakrishnan Hall of Residence.