MANISH KUMAR | CH20B063 | INDIAN INSTITUTE OF TECHNOLOGY MADRAS

LinkedIn | GitHub | LeetCode

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institute	% / CGPA	Year
B.Tech in Chemical Engineering	Indian Institute of Technology, Madras	7.08	2024
Class XII (RBSE)	Guru Ravindra Nath Tagore School, Taranagar	94.80	2019
Class X (RBSE)	Shree Banechand Sarawagi Aadrash Vidya Mandir, Taranagar	87.33	2017

- Secured Rank **2** in **SCIENCE QUIZ COMPITITION**, this competition held by **B K BIRLA INSTITUTE OF ENGG & TECH, PILANI**.
- Secured **All India Rank 9709** in **JEE(ADV) 2020** and 97.78 percentile in **JEE Mains 2020** conducted by **IIT Delhi**.
- Solved 650+ data structure and algorithm challenges on leetcode (1600+ rating) with 150+ day streak of daily challenge

RELEVANT COURSES & SKILLS

Courses	• Computational Techniques • Probability, Statistics and Stochastic Process • Machine Learning Techniques		• Introduction to Programming • Python For Trading • Data Structures and Algorithms Course in Python	
Skills	**Programming**	C/C++, Python, HTML,CSS, JavaScript	**Library**	NumPy, Pandas, Django, React, Node.js, express.js
	Software	Excel, Figma, VsCode	**Database**	SQL, MongoDB

PROFESSIONAL EXPERIENCE

AI4BHARAT	**Full-Stack Intern** (Feb'24-May'24)
	• Engineered efficient **Django backend for backend** codebase for Shoonya - an open source data annotation platform • Implemented scalable web applications with React.js, Django in Shonnya, optimizing performance and responsiveness.
Bit Wise Academy	**Curriculum & Content Creation Intern** (May'23-July'23)
	• Developed a course on ChatGPT, covering its **history, workings, future, applications, and limitations.** • Communicated complex technical concepts concisely, and presented findings in a professional manner using dynamic power point.

PROJECTS

Smart Home Automation	• Collaborated on a 21-day workshop, contributing to "Smart Home Automation" project, and **led app creation**. • Spearheaded cross-functional team in implementing smart chip tech, converting appliances into smart devices. • Designed an **intuitive app interface using Figma for seamless device control,** revolutionizing interactions in smart spaces.
Music App	• Designed and developed an interactive music player interface using react.js for client and express.js for server. • Created dynamic **web components, including progress bars, play/pause toggles, and song selectio**n features. • Developed a playlist management system with playback and seamless transitions utilizing Node.js, the Audio API and mongoDB database.
Food delivery website	• Developed a Food delivery website using React.js, showcasing proficiency in modern JavaScript frameworks. • Implemented structured component architecture, including separate directories for **common components, filters, headers, and tabs, ensuring maintainability and scalability**.
Pdf chat Bot	• Developed a interactive website interface using react.js for client and express.js for server and MongoDB. • Implemented a **PDF preprocessing pipeline to extract relevant information and entities**, integrated **LangChain with OpenAI's API** for generating responses.
Real-Time Manufacturing Data Exchange	• Built a multi-protocol communication hub with Node / Data Exchange in Manufacturing Plants Across Multiple Devices — With TCP/IP and Scale to Future Protocols with **Node.js / Express and .net**. • Developed a thorough testing suite using **Mocha, Chai & Sinon** with stubbing and unit tests to guarantee communication between devices and Manufacturing Plants.

POSITIONS OF RESPONSIBILITY

Coordinator SAARANG (Apr'21-May'22)		• Part **of 20-member** team that handles **the photography and videography during Saarang**. • Trained in Premier Pro, After Affects, working in creating fresher video in collaboration with Saarang. • Made **after-movie** for Saarang'22 and promotion video for marketing of Saarang, its merchandise. • Part of IGEM IIT MADRAS TEAM which uploaded video on importance of vaccine in covid pandemic.
SOC (Media)	**Coordinator** (Apr'22-May'23)	• Part **of 7-member** team that handles the photography and videography **during every SOC's events**. • Made promotion videos for every SOC's event during **Inter-Hostel tournaments, Schroeter & Dean's Trophy**. • Made **after-movie** for **inter iit'23, inter-hostel tournaments, Schroeter & Dean's Trophy, Gymkhana Day**.
	Core (May'23-May'24)	• Handled and mentored**a team of 7 coordinators** for conducting Freshies Sports Orientation and Spotify. • Guided coordinators for upcoming **Sports Fest'23**, **Inter-Hostel tournaments, Schroeter & Dean's Trophy.** • Taught to coordinators about **the photography, editing and videography**.

EXTRA-CURRICULARS

Sports	• Won **silver medals** in 1500m and 5000m running at **Institute Athletics Meet 2022 and SAAHAS'22**. • Participated in Institute Athletics team and **Institute Athletic Inter IIT team** in **2022 and 2023**. • Lead Hostel Athletics team during **schroeter'24** and Secured **Runner up position** with two individual medals.