

ACADEMIC QUALIFICATIONS

Year	Degree	Institute	CPI/%
2020-2024	B.Tech	Indian Institute of Technology Kanpur	7.4/10
2020	CBSE(XII)	S.D.V.M. Public School, Gwalior	94.5%
2018	CBSE(X)	Delhi Public School, Gwalior	89%

SCHOLASTIC ACHIEVEMENT

- Achieved an **All India Rank** of **2419** in **JEE Advanced 2020** from a pool of about **0.16 M** Candidates from all over India
- Achieved an **All India Rank** of **3605** in **JEE Mains 2020** from a pool of nearly **1.1 M** Candidates from all over India

WORK EXPERIENCE

Advanced Application Engineering Intern | Accenture, Bangalore, India

(Jun'23-Jul'23)

Objective	• Engineering a Gen-AI powered Application for the Accenture MySecurity to empower the SOC analysts in the Severity detection of a Security Incident, easing the resolving of Security Incident
Approach	• Utilized Llama-Index and Langchain Frameworks for engineering a Gen-AI app for Context extraction • Used LLM's for the context extraction from a Security Incident complaint to help in Severity detection • Created a Robust Pipeline to extract, Preprocess and Translate the Security intel reports from Cloud • Analysed the translation of Reports from various LLM's by utilizing a Hugging Face Transformer for vector embeddings and using a semantic metric for comparative assessment of various LLM's • Integrated PyMuPDF , wkhtmltopdf libraries, for preserved structure for the report during translation
Impact	• Empowering 10K+ SOC Analysts globally , in detection of severity and resolving of Security Incidents • Complete automation of the Global Communications with Structured translation of the Intel Reports.

KEY PROJECTS

Distributed Storage System (Self Project)

🕒 (Sep'24-Sep'24)

- Built a **distributed file storage system** using **Go** for efficient file uploads, retrieving and replication across **multiple nodes**
- Implemented a **containerized architecture** with **Docker**, deployed on **Kubernetes** for automatic scaling and load balancing
- Integrated **OTP-based authentication** with **Node.js** Nodemailer service, **React.js** frontend, and **supabase** for user management
- Utilized **RESTful APIs** for file operations and user management, monitoring and **performance tracking** via **Prometheus**

RustDuino (Electronics-Club, IIT Kanpur)

🕒 (Apr'21-Aug'21)

- Developed **Rust Crates** for the Arduino 2560p and 328p Microcontrollers and gyro sensors, thermal, humidity sensors etc
- Created Library that is **memory safe** with no calls to mallocs, and using rust helps avoid the memory issue of **Nullpointer**
- Developed a **Hardware Abstraction Library** and a **Communication Control library** implementing protocols like USART and I2C for Atmel ATmega328p and ATmega2560p microchips for interfacing with further sensors or peripheral devices

IITK-Planner (Self Project)

🕒 (Jul'23)

- Developed an university course management solution, employing **Java Spring** backend, **React.js** front end and **MySQL DB**
- Developed a working and responsive web application solely featuring an **OTP-based login system**, hosted with Firebase
- Demonstrated full-stack prowess in **data modeling**, **REST API setup**, UI design, and **third-party library integration**

DeBlurring of Fast Moving Object (Dr.Tushar Sandhan, Dept. of EE, IIT Kanpur)

(Jun'22 - Oct'22)

- Utilized the pre-trained **ResNet-50 based DeFMO model** trained on diverse datasets for **detecting** and **deblurring** the **FMO's**
- Estimated the **masks of the subframe renderings**, to get **image moments** and utilized them to extract the **Centre of Gravity** as well as create a **bounding box** for the object and estimate the blurred object's velocity.

TECHNICAL SKILLS

Programming Languages	Tools and Libraries	Development
C/C++, Python, JavaScript, Java, Go*, Rust, \LaTeX , SQL	Git, Jupyter, IntelliJ, Numpy, Pandas, Langchain, Llama-Index, TensorFlow	ReactJS, Postgres, SpringBoot, Docker*, Kubernetes*, NodeJS*, Prometheus*

POSITION OF RESPONSIBILITIES

Core Team Member & Head Web Dept. - Association of Mechanical Engineers, IIT Kanpur

(Apr'22-May'23)

- Spearheading a **3-tier team of 12+ Coordinators** for organizing **placement sessions** and **events** like RSD, Department Reviews.
- Launched and Organized **Winter Projects** offered by AME which oversaw the participation of around **200 + mentees**.

RELEVANT COURSES

(*: Online Courses)

Introduction to Programming Image Processing Intro to Blockchain using Solidity*	Linear Algebra and ODE's Multivariate Calculus Computer Graphics	Machine Learning for S.P.(Statistical M.L.) Intro to Deep Learning using Pytorch * Statistical Methods for Management Research
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