

VISHU KALIER

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EDUCATION

- **Integrated Masters of Technology in Computer Science and Engineering** (2021 - 2026)
Specialisation in Artificial Intelligence and Machine Learning
Cumulative GPA - **9.21**, VIT Bhopal University, Bhopal, 466114, M.P.
- **XIIth**, Percentage - **81.7**, St. Mary's Academy, Meerut Cantt., Meerut, 250001, U.P. (2019 - 2020)
- **Xth**, Percentage - **93.4**, St. Mary's Academy, Meerut, 250001, U.P. (2017 - 2018)

WORK EXPERIENCE

- National Remote Sensing Center, ISRO** (September, 2024 - October, 2024)
Deep Learning Engineer *Hyderabad, India (On-site)*
Solar Energy Estimation and Quantification of Solar Panels in Urban Areas
- Overhauled **image segmentation** using **5+ algorithms**, sharpening solar panel detection by **40%**.
 - Accelerated **model training** using **12+** neural networks, leveraging data segmentation to **83%**.
 - Implemented bounding box detection across **100+** types of solar panels, increasing detection by **80%**.
- Omdena** (March, 2023 - June, 2024)
Chapter Lead *Berlin, Germany, (Remote)*
Multimodal Analysis of Pneumonia
- Architected **fine tuning** and **feature extraction** on **35k+** images, leveraging accuracy to **78%**.
 - Developed **10+ dense networks**, improving model accuracy by **35%** thereby, upgrading reliability.
 - Streamlined model variables from **150** to **44** by developing **20+ data pipelines**, boosting **parallelism**.

PROJECTS

- Collab Sphere, An Automated Team Management, Collaboration and Workflow System**
- Built system that allocates employees among **8+** teams via **resume** parsed by **Google document API**.
 - Transformed **team allocation** and matching algorithms by **30%**, coordinating employees to relevant roles.
 - Optimized chat workspace and task grouping, by utilising **CI/CD Pipelines** escalating performance by **80%**.
 - Integrated **report generation** to extract data of **8+** groups and **100+** tasks, improving transparency by **30%**.
- Nova Elite, A Customizable Hybrid Database Model for Flexible Data Management**
- Condensed all schema under **4 composite storages**, upscaling throughput by **40%**, reducing latency by **50%**.
 - Designed **8+** microservices allowing **12k+** request calls per second, upgrading query optimization to **30%**.
 - Enhanced transaction management, leading to data consistency by **80%** and conflict resolution drop of **55%**.
 - Scaled the robustness by **event capturing** and **vectorized execution**, augmenting maintainance to **30%**.

SKILLS

- **Tech Stack:** **Artificial Intelligence**, Microservices, Software Development, Database, Machine Learning
System Design, **Springboot**, **AWS**, **Data Structures and Algorithms**, **SDLC**, **Agentic-AI**
- **Languages:** **Java**, **Python**, **Google Cloud**, **SQL**, **Mongo**, **Tensorflow**, **C++**, **Node**, **React**, **JavaScript**,

EXTRA-CURRICULAR ACTIVITIES

- Led a team of **15+** members as Head of Research in Blockchain Club, increasing member participation by **40%**.
- Ranked **top 1%** coders on Leetcode and **1200** rating on Codeforces, thereby solving diverse **1500+** problems.

CO-CURRICULAR ACTIVITIES

- Displayed strategic decision making and planning by winning **2+** district **Chess tournaments** in senior division.
- Spearheaded **4+** Debates by crafting directed arguments, gaining recognition as a **influential communicator**.