VISHU KALIER

7300764957 || $Meerut, India \parallel vishukalier1808200@qmail.com \parallel LinkedIn \parallel GitHub$

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, M.P.

Available for full-time oppourtunities from June, 2025 (NOC from University available)

• XIIth, Percentage - 81.7, St. Mary's Academy, Meerut Cantt., Meerut, U.P.

• Xth, Percentage - 93.4, St. Mary's Academy, Meerut, U.P. (2017 - 2018)

(2019 - 2020)

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 Chapter Lead (March, 2023 - June, 2024)

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, Angular, C++, Node, React, Tensorflow

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 Expert (blue) 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**.