

VISHU KALIER

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EXPERIENCE

National Remote Sensing Center, ISRO

(Sep, 2024 - Oct, 2024)

Deep Learning Engineer

Hyderabad, India (On-site)

Solar Energy Output Estimation and Quantification of Solar Panels in Urban Areas

- Implemented bound-box detection using OpenCV across 100+ variations in solar panel layouts.
- Overhauled panel detection from 10k+ satellite images using KerasCV, improving detection by 90%.
- Ensembled 4 YOLO variants combined using Transformer library for better Image pipelining.

Omdena

(Mar, 2023 - Jun, 2024)

Chapter Lead

Berlin, Germany, (Remote)

Extreme 14-Day Weather Forecast

- Architected feature extraction and preprocessing on 1M+ data, leveraged by AWS SageMaker.
- Streamlined dataset features from 150 to 44 variables by developing 20 data pipelines in Python.
- Developed 3 deep neural networks like LSTM, U-Net, and FNO, improving model accuracy by 80%.

PROJECTS

Recruit Sphere, An Automated Team Management, Collaboration and Workflow System

- Built Node.js resume parser with Google Docs API and spaCy that assigns employees under 5 teams.
- Transformed team allocation logic by 30%, improved using TensorFlow and JavaScript frameworks.
- Accelerated chat workspace performance by 80%, by utilizing Jenkins CI/CD with Docker.
- Integrated automated report generation of 10+ tasks incorporated by AWS Lambda and Tableau.

Elite Base, A Customizable Hybrid Database Model for Flexible Data Management

- Condensed logic schemas into 4 compositions by 5 Spring Boot microservices, reducing latency by 20%.
- Enhanced distributed transaction management, with Redis and Apache Kafka, reducing conflict rates.
- Scaled system robustness by event-driven workflows and vectorized execution, via 2 Kafka Streams.
- Designed 5 Spring Boot and 3JavaScript microservices deployed with Docker to elevate optimization.

SKILLS

- **Concepts:** Data Structures, Algorithms, LLD, Microservices, Java Full Stack, System Design, SDLC
- **Frameworks:** Spring, Spring Boot, MySQL, MongoDB, OpenCV, Tensorflow, Keras, Java Collections
- **Programming:** Java, SQL, React, JavaScript, Python, Node.js, Express.js, TypeScript, Rust, C++, Git

EXTRA-CURRICULAR ACHIEVEMENTS

- Led a team of 50 members as Head of Research in Blockchain Club, increased member participation by 40%.
- Ranked in the top 1% on Leetcode and achieved Expert on Codeforces by solving diverse 1800+ problems.

CO-CURRICULAR ACHIEVEMENTS

- Displayed strategic decision making and planning by winning 2+ district Chess tournaments in senior division.
- Spearheaded 4 Debates by delivering focused fact-driven arguments as an influential communicator.

EDUCATION

- **Integrated Masters (BTech + MTech) of Technology in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning** (2021 - 2026)

Cumulative GPA - **9.21**, VIT Bhopal University, Bhopal, M.P.

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