

OISHIK DUTTA

Software Engineer

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Experience

Cognierege Solutions

May 2024 – Dec 2024

Lead Software Engineer

Kolkata, West Bengal

- Developed APIs and tools for geospatial data analysis and machine learning, integrating ArcGIS with PyTorch for deep learning models.
- Worked on data preprocessing and transformation for geospatial imagery to make it ready for deep learning applications.
- Led the development and optimization of machine learning pipelines for large-scale geospatial datasets.

ABM

February 2022 – February 2024

System Engineer

Hyderabad, Telangana, India

- Collaborated on integrating deep learning models into applications for geospatial and computer vision tasks.
- Designed microservices and backend systems to handle large geospatial datasets and perform data transformations for AI-based applications.

Projects

Geospatial Deep Learning for Land Use Classification | *PyTorch, ArcGIS, Python*

July 2024

- Developed a deep learning model using PyTorch for land use classification based on satellite imagery.
- Integrated ArcGIS with PyTorch to preprocess geospatial data and apply deep learning techniques to extract actionable insights.
- Built an API to serve the model predictions and provide real-time geospatial analytics for urban planning applications.

StoreIt | *Spring Boot, JEE2, Gradle, SASS, SQL*

November 2023

- Project Overview: Developed a comprehensive inventory management solution leveraging modern Java technologies.
- Modular Microservices Architecture: Crafted a flexible microservices architecture that allows independent operation of services for inventory tracking, order management, and supplier integration.
- Robust Backend Development: Engineered RESTful APIs with Core Java to handle complex business logic, including stock level management, automatic reordering, and batch processing. Focused on strong exception handling and logging for improved monitoring.

Education

Newton School of Technology

September 2021 – May 2022

Associate's Degree in Computer and Information Sciences

Bangalore, Karnataka

University of Calcutta

Graduated

Bachelor's Degree in Information Technology

Kolkata, West Bengal

Courses / Certifications

Deep Learning for Geospatial Applications — Coursera

2024

Deep Learning, Computer Vision, and Geospatial Data Processing

ArcGIS for Machine Learning — Esri

2023

Geospatial Data Science and AI Integration

Software Engineer Program — JPMorganChase — Computer Science

Spring 2023 – Present

Certificate

Coding Ninjas

Career Camp — Advance Java(JEE2, Gradle) — Computer Science

Spring 2023 – Present

Certificate

Coding Ninjas

Google Developer Kickstart 2022 (Java)

Summer 2023 – Present

Certificate

Google

GoodCode For Good

October 2022 – Present

Certificate

Devfolio