

# Moksha Datta Vadlamudi

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## INTERNSHIPS

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### Project Intern at NRSC, ISRO

Feb - Apr 2025

- Provided support in developing and integrating a **chatbot** on the **ISRO website**
- Developed and integrated **deep learning** models for detection of **ocean oil spills** from **satellite** images
- Gained experience accessing **HPC systems** for large scale data processing via **cloud access**

### AI-ML Internship by AICTE, AWS | Virtual

Sep - Nov 2024

- Gained experience with **AWS cloud services**, including **SageMaker, S3 and EC2** in the context of **ML** workflows
- Developed and trained **ML models** using **Python**, **AWS SageMaker**, and **scikit-learn**

## PROJECTS

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### Your Water Footprint | MERN Stack, Computer Vision Project - [github.com/MokshaDattaV/WaterFootprint](https://github.com/MokshaDattaV/WaterFootprint)

- **Formed and led a team** to build a **fully functional web application** with a dynamic and interactive **React.js** frontend
- Developed a RESTful API with **Node.js** and **Express.js** to handle **authentication**, **database interactions**, and **water footprint** data retrieval
- Designed and optimized a **MongoDB** database schema for efficient **data storage and retrieval**

### Oil Spill Detection | DL, Full Stack Project - [huggingface.co/spaces/MokshaDatta/oil\\_spill\\_detection\\_from\\_images](https://huggingface.co/spaces/MokshaDatta/oil_spill_detection_from_images)

- Developed **Deep Learning** models using **UNet** and **DeepLabV3+** with multiple backbones for oil spill detection from SAR images
- **Integrated** the deep learning model into an **interactive frontend** using **Streamlit** and **deployed it** on **Hugging Face Spaces**
- **Authored** and **submitted** a conference paper to **2025 IEEE India Geoscience and Remote Sensing Symposium(INGARSS)**, in collaboration with senior scientists at **NRSC, ISRO** (Under Review)

### Quiz Application | Java Project - [github.com/MokshaDattaV/Quiz-Application](https://github.com/MokshaDattaV/Quiz-Application)

- Developed a Quiz application using **Java Swing** and **AWT**, with an admin panel for managing questions and visualizing student scores
- Integrated backend with **SQL Server** and driver functions to store and access student scores and details, with **user authentication**

## CERTIFICATIONS & ACHIEVEMENTS

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- Oracle Certified **Generative AI Professional**
- Oracle Certified **Data Science Professional**
- **Interactive Web Design Certification** - FreeCodeCamp
- **Second Runnerup - Tech Savishkar 2025** (National Level Hackathon), Vasavi College of Engineering

## EDUCATION

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### BVRIT , Narsapur, Telangana

2022 – 2026

Bachelor of Technology in CSE (Data Science) | CGPA: **8.75/10**

## SKILLS

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**Programming Languages:** Java, Python, C, Java Script

**Web Development & Tools:** React JS, Node JS, MongoDB, CSS, HTML, GitHub

**Machine Learning & AI:** Agentic AI, Generative AI, Machine Learning, Data Analysis & Visualization

**Databases & Cloud:** MySQL, AWS S3, EC2, Google Cloud, Oracle Cloud

**Non Technical Skills:** Communication, Problem Solving, Critical Thinking, Leadership, Office suite