Gandhinagar Gujarat (382428)	**NIVESH PRITMANI** Linkedin	(+91) 9016-715-500 niveshpritmani@gmail.com

Experience

Research Intern	Bhaskaracharya Institute of Space-Applications and GeoInformatics(BISAG-N),Gandhinagar	May 2024 - Aug 2024

- Developed and implemented **AI-powered precision support systems** for Agriculture, Forestry, and Fire Management.
- **Technologies Used:** Python, TensorFlow, Keras, Roboflow, QGIS, Google Earth Engine.
- **Improved data accuracy by 40% and reduced analysis time by 30%.**
- Built and fine-tuned Deep Learning models (**Unet**, **DeepLabV3**, **Detectron2**, **YOLOv8/v9**) for object detection, classification, segmentation, and measurement in Geospatial imagery.
- Orchestrated Python-based workflows for data preprocessing, model training, and evaluation, handling large-scale TIFF image datasets.
- Leveraged **Roboflow** for annotating datasets, **SAM** geospatial for predictive models, and **QGIS** and Google Earth Engine for geospatial analysis.

Technological Skills

PROGRAMMING LANGUAGE:	Java(DSA), Python(AI/ML)
Web Technologies:	HTML, CSS, Bootstrap, JavaScript
DevOps & Cloud Technologies:	AWS (EC2, S3, LAMBDA, CloudFormation), Docker(Basic)
MACHINE LEARNING:	TensorFlow, Keras, Scikit-learn, Numpy, Pandas
DATABASES:	MySQL, Hadoop Framework
DATA STRUCTURES:	Array, Linked-List, String, Tree, Graph, Trie, Disjoint-Set Forest, Stack, Queue, Map, Set
TOOLS & Concepts:	OOPs, Unit Testing(JUnit), RESTful API, Linux

Projects

BookWise : Comprehensive Library Management System (Github Link)
Flask, **Bootstrap**, **SQLite, Bcrypt, Google Books API**
- **Developed** a comprehensive Library Management System using **Flask**, **Bootstrap**, **SQLite**, and **Google Authentication** to streamline book inventory management, user interactions, and transaction processes..
- Streamlined book inventory management, user interactions, and transaction processes.
- Created **RESTful APIs** for updation of book details and user profile details.
- Implemented secure user authentication and authorization using Google Authentication and **Bcrypt**.
- Designed a user-friendly interface for seamless book searching, borrowing, returning, and browsing recommendations.
- Incorporated a robust notification system for due dates, new arrivals, and overdue books.
- Generated insightful reports on book usage, overdue items, and user activity.

Leetcode Code Extractor: Web Scraping Tool (Github Link)
- Engineered a web scraping tool using **Selenium** and **BeautifulSoup** to automate code extraction from LeetCode submissions.
- Automated the extraction of code from LeetCode submissions.
- Implemented login automation and HTML parsing to retrieve user solutions efficiently.
- Developed a file management system to store extracted code in appropriate file formats (.java, .cpp, .py).
- Improved efficiency in managing and reviewing coding solutions.

AI QUIZ Backend: Microservice (Github Link)
Python, Flask, Flask-JWT, Flask-SQLAlchemy, MySQL, Google Generative AI, Docker
- Implemented JWT-based authentication for secure user access.
- Integrated **Google Generative AI** for dynamic quiz generation.
- Designed REST API endpoints for real-time scoring, quiz retries, and history retrieval.
- Deployed using Docker for scalable and efficient deployment.

Education

Pandit Deendayal Energy University	Gandhinagar,Gujarat
B.Tech in Information and Communication Technology , CGPA:9.62	*October 2021-May 2025*

Achievements

- **Finalist** in **Odoo Combat 2024 Hackathon** (Top project among **600+** submissions) **Diet Recommendation System**.
- Leetcode (Max. Rating 1613) Solved **250+** DSA problems, **Top 26.64%** globally.

Co-Curricular

Campus Placement Student Coordinator	April 2023-Present
CDC Cell, PDEU	