

Radhika Aggarwal

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EDUCATION

The NorthCap University

B.Tech, Computer Science and Engineering, GPA: 8.40

Gurgaon, IN

Oct 2020 – May 2024

CCA School

10+2, Science, Score: 93.6%

Gurgaon, IN

Apr 2018 – Mar 2020

EXPERIENCE

Intern - Product Technology

Sept 2023 – Present

IDAM House of Brands

Gurgaon, IN

- Streamlined and **automated** various data-related tasks, significantly increasing daily productivity in data analysis.
- Designed and implemented insightful **BI dashboards** using **Google Looker Studio** for all brands within the company, leading to more informed **decision-making** and data-driven insights.
- Closely monitored **KPIs** and product data for brands to ensure accuracy.
- Automated **web scraping** from major **e-commerce** platforms using **Google Cloud** and Python.
- Setting up **data warehouse** using Google **BigQuery**.
- Contributed to frontend development using **Shopify**, and tracked daily website **speed optimization** enhancing the user interface and experience.

Research & Development Intern

Oct 2022 – Apr 2023

Indian Space Research Organisation (ISRO)

New Delhi, IN

- Researched and developed an automation tool** for the use of multi-temporal **Sentinel-1A and EOS-4 SAR data** (auto-download) to map crop duration.
- Conducted **predictive analysis** on crop acreage and utilized **Python for image pre-processing** using SNAP Python interface and supervised **Machine Learning** classification.

PROJECTS

Web Application for Optimization of Millet Farming

Sept 2023 – Ongoing

- [GitHub](#) | *Python, GDAL, MERN Stack, Google Earth Engine, ML Research*
- Developing a web application using AI and ML techniques for optimizing the sustainable use of resources used in millet farming.
- Leveraging satellite data to precisely predict the behavior of millet crops, and provide analysis to increase the production.

Finger Count Detection

Apr 2023 – May 2023

- [GitHub](#) | *Python, Computer Vision, Arduino NANO, 7-Segment*
- Detects and interprets hand gestures in real-time and displays the number of fingers being held up on the 7-segment display module.
- Uses **CNN model**, and cv2 and mediapipe library for classification.
- Designed to work in different lighting conditions and be able to detect hand gestures from a reasonable distance.

Automation of In-Season Multi-Crop Classification & Acreage Forecasting

Oct 2022 – May 2023

- [GitHub](#) | *Research, Python, ML, Computer Vision, GDAL, GIS*
- Developed a GUI-based automation tool using AI and ML techniques for image preprocessing, multi-class supervised classification, and area estimation for multi-temporal SAR data.
- Introduced features:** satellite imagery data download, preprocessing using SNAP-Py, feature engineering using Geospatial Data Abstraction Library (GDAL), and classification using ML algorithms.

TECHNICAL SKILLS

- Languages:** Python, C/C++, Java, JavaScript, HTML/CSS
- Databases:** MySQL, Google BigQuery, MongoDB
- Version Control:** Git, GitHub
- Cloud Technologies:** AWS, Google Cloud
- Business Intelligence:** Microsoft Power BI, Google Looker
- Frameworks:** Scikit-Learn, Scikit-image, Tensorflow, OpenCV, SciPy, Selenium, BeautifulSoup, Page Speed Insights
- Analytics Platforms:** Shopify, Firebase, Google Analytics 4, Appsflyer, MoEngage, MS Clarity, MS Excel
- Problem Solving and Data Structures**

CERTIFICATIONS

Introduction to Internet of Things

NPTTEL (Swayam), 2023

AWS Academy Machine Learning Foundations

Amazon Web Services, 2022

Python Basics for Data Science

IBM, 2021

ReactJS - Frontend Web Development

Udemy, 2021