Radhika Aggarwal

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EDUCATION

The NorthCap University	Gurgaon, IN
B.Tech, Computer Science and Engineering, GPA: **8.40**	*Oct 2020 – May 2024*
CCA School	Gurgaon, IN
10+2, Science, Score: **93.6%**	*Apr 2018 – Mar 2020*

EXPERIENCE

Intern - Product Technology — Sept 2023 – Present

*The Guardian Group — **Looker Dashboards*** — *Gurgaon, IN*

- Streamlined and **automated** various data-related tasks, significantly increasing daily productivity in data analysis by 80%.
- Designed and implemented 10+ insightful **BI dashboards** using **Google Looker Studio** for all brands within the company, leading to a 50% improvement in **decision-making** and data-driven insights.
- Closely monitored **KPIs** and product data for brands to ensure 99% accuracy.
- Automated **web scraping** from major **e-commerce** platforms using **Selenium** & Python.
- Setting up **data warehouse** using Google **BigQuery** & SQL Server, to centralize & optimize data storage & retrieval.
- Tracking daily website **speed optimization** metrics from PSI & GT Metrix enhancing the user interface and experience by 40%.

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 – Apr 2024

- GitHub | *Python, SQL, MERN Stack, ML Research*
- Developed a web application to optimize the sustainable use of millet farming resources & predict millet-based recipes.
- Leveraged satellite and weather data to improve crop yield analysis.

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, AWS
- **Version Control**: Git, GitHub
- **Cloud Technologies**: AWS, Google Cloud
- **Business Intelligence**: Microsoft Power BI, Google Looker Studio
- **Frameworks**: Scikit-Learn, Scikit-image, Tensorflow, OpenCV, SciPy, Selenium, BeautifulSoup, LangChain, Page Speed Insights
- **Analytics Platforms**: Shopify, Firebase, Google Analytics 4, Appsflyer, MoEngage, MS Clarity, MS Excel
- **Problem Solving and Data Structures**

CERTIFICATIONS

The Joy of Computing using Python	NPTEL (Swayam), 2024
AWS Academy Machine Learning Foundations	Amazon Web Services, 2022
Python Basics for Data Science	IBM, 2021
ReactJS - Frontend Web Development	Udemy, 2021