

Shruti Agarwal

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🔗 Hashnode Blog

WORK EXPERIENCE

Omdena Inc.

[Junior Machine Learning Engineer | Task Lead](#)

April 2023 – July 2023

Internship

- Led the "[Model Building and Deployment](#)" task for the Omdena's [Philippines project](#) addressing real challenges faced by farmers using Machine Learning.
- Developed a robust deep learning classifier with around **91% accuracy** to identify prevalent rice diseases in the Philippines.
- Contributed to the Streamlit app that embeds all models and [deployed it using HuggingFace Spaces](#), broadening accessibility and contributing to open-source knowledge sharing.
- Engaged in collaborative discussions, code reviews, and iterative development to enhance [project quality and impact](#).

Tools Used: Python, Pandas, NumPy, OpenCV, Pillow, TensorFlow, Keras, Streamlit, Git, GitHub, HuggingFace Spaces

PROJECTS

[The Air We Breathe](#)

Built a [Streamlit app](#) that visualizes global air pollution levels through interactive maps and charts, showcasing AQI values of various pollutants across cities.

Built using: Python, Pandas, Matplotlib, Seaborn, Plotly, Streamlit

[Streamlit Custom Toggle](#)

Created a component that loads a heart-shaped toggle switch within [Streamlit apps](#). It is easy to install as a python package.

Built using: Python, Typescript, React, HTML, Node.js, PyPI

[MindsDB](#)

- Authored a comprehensive [tutorial for MindsDB](#), an **open-source platform** that bridges the gap between data and AI models.
- Conducted **manual QA tests**, evaluating the compatibility and performance of MindsDB's data connections with diverse external sources such as [Planetscale](#), [D0It](#), and more.
- Actively communicated with the development team, sharing QA insights to enhance integration capabilities and optimize user experience.

Used: Python, SQL, JSON, MindsDB Cloud Editor, GitHub

CERTIFICATIONS

[Intro to NLP for AI](#)

[Getting Started with Data Analytics on AWS](#)

SKILLS

- **Programming Languages & Databases**
Python, JavaScript, TypeScript, MongoDB, MySQL, SQLite
- **Web Development Tools**
HTML5, CSS3, Bootstrap, React, FastAPI, Node.js
- **Machine Learning Frameworks**
Pandas, NumPy, OpenCV, Pillow, Scikit-learn, Tensorflow, Keras, Matplotlib, Seaborn, Plotly
- **Version Control & Cloud Platforms**
Git, GitHub, GitHub Actions (CI/CD), AWS, GCP (basics)
- **Other Tools**
Linux, Streamlit, Postman, LangChain, OpenAI API, PyPI, REST APIs, pre-commit, CircleCI, pytest, HuggingFace Spaces, Netlify, Replit
- **Productivity Tools**
Canva, Notion, Slack, Google's Docs, Sheets & Slides, MS Office
- **Industry Knowledge**
Data Collection, Data Exploration, Machine Learning, Deep Learning, Computer Vision, Collaborative Coding, Technical Writing

ACHIEVEMENTS

- One of the top active performers for the [30 Days of Streamlit](#) Challenge held in the month of April 2022.
- Member of [Streamlit Creators](#) group, an open-source community.
- Engaging with the Streamlit community to help them learn about the framework through writing blogs, building apps, collaborating, solving issues on the forum, etc.
- Written a community blog post for [Streamlit Blog](#).

EDUCATION

Smt. P.N. Doshi Women's College

Bachelor of Computer Applications

2018-2020

C.G.P.A.: 8.71

Ramanand Arya D A V College

Commerce (Maths and IT)

2016-2018

H.S.C: 81.38%

B. E. S Menon English High School

2010-2016

S.S.C: 81.00%