

Deepratna Awale

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SUMMARY

Generative AI and Machine Learning Engineer with **3 years** of **industry experience** who is an **AWS certified Machine Learning Associate**. Strong track record of deploying **full-stack AI applications**, and **engineering pipelines** for **large scale structured and unstructured data**.

Key Skills: Generative AI, Machine Learning, Data Science, Python, TensorFlow, PyTorch, AWS, ETL, Full Stack.

WORK EXPERIENCE

Generative AI Associate, Innodata Inc., Toronto, Ontario, CA Aug 2025 – Current

- **Evaluated** and **rated AI model** outputs for **quality, relevance, and accuracy** to ensure **alignment** for **Meta**.
- **Contributed** to **internal tools** for **testing toxicity**, and other metrics on various **benchmarks**.
- Supported **dataset development** through **data collection** and **augmentation**, reducing model overfitting.

AI Trainer: Coding Expert, T3 Outlier [Remote, Freelance] Dec 2024 – July 2025

- Correct and improve **LLM Code generation output** by giving a better **optimized solution, simpler, and elegant**.
- **Awarded best performer** for **identifying and correcting Merge Sort space complexity**.
- Supported code improvement for **Python, JavaScript, Java**.

Generative AI Engineer, Tapestry Video AI, Mountain View, CA, USA Oct 2024 – Dec 2024

- **Created, maintained and optimized ComfyUi AI** workflows by **40%** for **inpainting** on TikTok style videos.
- **Trained and finetuned** custom opensource **diffusion models** on UGC dataset to produce TikTok style content.
- **Built LLM agents** using **LangChain** for analyzing Shopify product pages, and relevant TikTok tags.

Machine Learning Engineer, Axiom Softech Pvt. Ltd., Nagur, MH, India Oct 2021 – Sep 2022

- **Optimized Data Pipelines**, reducing **ETL time** by **35%** using **PySpark** handling data over **4M+** records.
- **Architected PyTorch** and **TensorFlow NN** models, **improving customer engagement** by **20%**.
- Deployed **end to end AI solutions** on **AWS** using **EMR, Kinesis Data Streams, Lamda, S3, and Sagemaker**, achieving **99.0%** uptime and cutting costs by **25%**.

Team Lead, IIT Bombay, Mumbai, MH, India Aug 2021 – Sep 2021

- **Spearheaded feature to reduce manual corrections by up to 30%** across all transliteration files.
- **Led 5 C++ developers** and **5 Python developers**, delivering features in **record** times.
- **Developed Udaan**, a **C++ application** with **QT Framework**, to aid **OCR** output correction for **Indian scripts**.

Junior Data Analyst, Axiom Softech Pvt. Ltd., Nagur, MH, India Jan 2021 – Jul 2021

- Employed **Python** to **create data pipelines**, **eliminate manual cleanup**, achieving **98% data accuracy**.
- Engineered **forecast models** for augmenting **financial decisions** with data (**Scikit-learn, Statsmodels**).
- **Presented interactive dashboards** to stakeholders for decision making, powered by **Tableau** and **PowerBI**.







SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, SQL.
- **Domains:** Generative AI (LLMs & Diffusion), Machine Learning, Data Science.
- **Frameworks:** TensorFlow, PyTorch, Keras, QT Framework, Flask, Django, FastAPI, PySpark, NextJS, AuthJS.
- **Libraries:** Pandas, NumPy, Matplotlib, LangChain, Sci-kit Learn, OpenCV, Pillow, Selenium, Beautiful Soup, Gradio.
- **Platforms:** Linux, Windows, MacOS, AWS.
- **Tools:** Tableau, Power BI, Docker, Jenkins, Git, Jira, Stable Diffusion.

EDUCATION

MASc, Computer Engineering, Memorial University of Newfoundland, Canada	2024
BEng, Information Technology, RGCEr, India	2021

PROJECTS

Auto Express [Gen AI, Active Users, Live Site] 	Jan 2024 - May 2024
<ul style="list-style-type: none">Launched an open-source application that renders 28 facial expressions on any face using Stable Diffusion.Created inpainting workflows to perform localized feature changes guided by finetuned YOLOv8.Result is a one-click solution for chatbot emotion display, optimizing the process by 91.67%.	
SD-Parsers [Gen AI, NPM Package, Live Site] 	Jan 2024 - May 2024
<ul style="list-style-type: none">Launched an open-source Typescript node package to extract AI generation metadata from images.Deployed a live site for seeing the package and api in action using express.The parser is now available online as api, and as a package, and supports multiple generation source.	
3T Chat [Gen AI, Live Site] 	Jul 2025 - Jul 2025
<ul style="list-style-type: none">Launched a serverless LLM chat service using NextJS with my personality in under 2 hours on Vercel!Implemented file upload functionality using blob storage, managed PostgreSQL instance for user Auth.Built an agent to get data from GitHub repo api and pdf parsing Resume parsing.	
Fraud Detection [ML] 	May 2025 - June 2025
<ul style="list-style-type: none">Built a PySpark ETL pipeline to process a 6M+ transactions dataset, cleaned, and feature engineered new fields.Designed and deployed a Neo4j graph schema to enable multi-hop transaction analysis, and classification.Developed and evaluated fraud classifiers using scikit-learn on combined tabular and graph features, reaching 89% precision and 84% recall on synthetic data.	
Ocean Wave Height Estimation [Deep Learning, Neural Networks, CV] 	Jan 2024 - April 2024
<ul style="list-style-type: none">Developed a custom parser for Polar files from the Wamos II radar system using NumPy, and matplotlib.Enhanced accessibility by encoding data into PNG format and embedding radar data using Pillow.Designed a Hybrid Neural Network consisting of CNN and MLP in sci-kit learn to estimate wave height.	
3D Surface Reconstruction [CV] 	Jan 2023 - April 2023
<ul style="list-style-type: none">Employed COLMAP's Multi-View Stereo and Multi-View Fusion pipelines for 3D reconstruction from images.Developed Python scripts using OpenCV, NumPy, and SciPy to preprocess the Brutus rig's data.Performed frame extraction, distortion removal, camera intrinsic information extraction and embedding to DB.	
Theoretical Answer Evaluation System [NLP] 	Dec 2020 - May 2021
<ul style="list-style-type: none">TAES is an NLP system that evaluates textual answers using tokenization, DAN, Rake NLTK, and TensorFlow.Implemented features for plagiarism detection, grammar-based penalties, and automated score allocation.Achieved alignment with human-given scores 8/10 times, scoring 78% on the semantic similarity STS Benchmark.	

CERTIFICATIONS

AWS Machine Learning Associate	2025
IBM Data Science Professional Specialization	2019
IIT Madras Programming, DSA Using Python	2019