

Pradhyumna Nagaraja Holla

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Professional Summary

Software Engineer with 3+ years of experience building AI-driven applications and scalable backend systems using Python, AWS, and Machine Learning. Skilled in NLP, Computer Vision, Deep Learning, and Cloud Computing, I am eager to contribute to innovative SDE and AI/ML intern projects.

Education

Stevens Institute of Technology

MS in Computer Science (ML Concentration)

Hoboken, NJ

September 2024 - May 2026

Jyothy Institute of Technology

BE in Information Science and Engineering

Bengaluru, India

August 2017 - July 2021

Experience

Stevens Institute of Technology

Research Assistant - Natural Language Processing Lab

Hoboken, NJ

May 2025 - July 2025

- Conducted research on Large Language Models (LLMs) with focus on enhancing capabilities through AI Agents and other external tool integrations
- Implemented and evaluated various architectures for LLM integration with internet access and external APIs
- Contributed to a research paper on real-time drift monitoring in NLP, proposing novel methods using reconstruction, classification, and normality losses to enhance model performance and reliability

AntStack Inc

Member of Technical Staff - 2

Bengaluru, India

March 2022 – July 2024

- Built a GPT-4 chatbot integrated with Google Suite, Meetup, and Jira, handling 10,000+ user queries monthly for a European client
- Developed monitoring processes for Databricks, reducing pipeline failure response time by 30% for a Singaporean company
- Designed a solution for executing ML Algorithms in the backend, and sending plots to the front end for a product based company
- Developed a Natural Language Processing module for a Dispute Resolution project including complaint summarization for a law firm client
- Developed a Proof of Concept for fraud detection using Machine Learning and Rule-Based Systems on Databricks
- Authored technical blogs on trending technologies to boost company's digital presence and client acquisition

Queppelin Technology Solutions

Application Developer

Bengaluru, India

May 2021 – February 2022

- Developed a TensorFlow-based music genre classifier web app, achieving 85% accuracy and deployed on AWS EC2
- Eliminated 5,000+ duplicate product entries across Excel files, saving 10 hours of manual work weekly for a news network
- Led and mentored 5 interns, resulting in 3 successful POCs and upskilling in TensorFlow and React
- Engaged in various internal company projects

Queppelin Technology Solutions

AR-AI Intern

Bengaluru, India

October 2020 – April 2021

- Developed POCs demonstrating human body segmentation on Augmented Reality using Tensorflow, TensorflowJS and React
- Implemented an interactive 3D visualization project using Three.js and AR.js, showcasing immersive web-based augmented reality experiences with marker-based tracking
- Built 4+ Python and Data Science POCs, leading to a full-time role offer

Skills

- **Programming:** Python, SQL, JavaScript, TypeScript, C, C++, C#, Dart, Java
- **ML/DL:** TensorFlow, PyTorch, Scikit-Learn, PySpark, Pandas, NumPy, OpenCV
- **Web:** HTML/CSS, Django, Flask
- **Tools:** AWS (Lambda, SAM, API Gateway, DynamoDB, S3, SES, SageMaker, Bedrock, EC2), Databricks, LangChain, Docker, Git

Certifications & Achievements

- Google Cloud Professional ML Engineer (ID: 2d680a48)
- Coursera Deep Learning & TensorFlow Developer Specializations
- AWS Community Builder Program (ML) since 2023
- Co-hosted "GAMEATHON" inter-college game development competition (2019-2020)
- Recognition Award for Marketing Efforts at Jyothy Institute (2018-2019)

Technical Writing

Authored 6+ technical [blogs](#) on AWS ML, Generative AI, and Cloud Computing:

- Medical Insights with Amazon Comprehend Medical
- Serverless Image Classification with SageMaker, Lambda and EFS
- Building QA Chatbots with OpenAI, LangChain and AWS services