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(Portfolio)

Top Skills

Agentic AI
Google Agent Development Kit
(ADK)
Large Language Model Operations
(LLMOps)

Languages

Hindi (Native or Bilingual)
English (Professional Working)

Certifications

Python for Finance: Investment
Fundamentals & Data Analytics
Simulink Onramp
Prompt Engineering for Everyone
Bootcamp
Data Science Methodology
Rest API (Intermediate) Certificate

Publications

Robust Deep Learning Based
Underwater Object Detection
Approach
Energy Efficiency and Carbon
Footprint Reduction in
Pharmaceutical Research &
Development Facilities
Subaqueous Crack Detection using
Fusion Based Image Enhancement
for Dam Structure Inspection
Optimizing HVAC energy
consumption through occupancy
detection with machine learning
based classifiers
The Evolution of Object Detection:
YOLO-NAS Revolutionizing
Computer Vision

Abhimanyu Singh

Data Scientist - Manager @ HDFC Bank | Ex-Senior MLE @
Quantiphi | Creating Generative AI Solutions for Financial Domain
Greater Jaipur Area

Summary

I am an AI-driven Data Scientist with 4+ years of industry experience and 2 years of applied research in computer vision, robotics, and generative AI. I recently joined as a Data Scientist - Manager at HDFC Bank, supporting the Engineering Factories initiative and contributing to large-scale AI, automation, and intelligent decisioning systems in the financial domain. Before joining HDFC, I worked at Quantiphi as Sr MLE, where I helped build GCP-based AI OCR solutions to automate document processing workflows for clients in the Financial Services and Insurance (FSI) sector. I specialize in building scalable, production-ready AI solutions that bridge robotics, real-time data pipelines, and cloud-native systems. During my time at Alphadroid India Ltd, I contributed to robot update orchestration, multilingual conversational systems, and deploying computer vision models across mobile and edge platforms. My research foundation comes from my role as a Research Fellow at IIT Guwahati, where I developed automated vision pipelines, real-time tracking systems, and underwater surveillance applications. I'm passionate about intelligent systems, distributed AI architectures, and next-generation agentic and robotics-based AI applications. I'm always open to connecting and collaborating on forward-thinking AI and product engineering initiatives.

Experience

HDFC Bank

Data Science Manager
December 2025 - Present (3 months)
Noida

- Agent Orchestration UI: Contributed to the core Neev platform by developing the Agent Catalogue, a specialized module that abstracts low-level LiteLLM routing into a user-friendly, card-based dashboard. This interface allows teams to discover, monitor, and configure autonomous agents without interacting directly with raw configuration files.

- MLOps & Data Tooling: Developed a Streamlit-based POC dashboard for data annotation, enabling an internal crowd-sourcing model to generate labeled datasets for fine-tuning/RAG applications.

Quantiphi

Senior Machine Learning Engineer

September 2025 - November 2025 (3 months)

Bengaluru

Creating Generative AI solutions for enterprise Private Equity (PE) clients in the Financial Services and Insurance (FSI) Sector

Alphadroid

Software Engineer (Gen AI & Computer Vision)

June 2024 - September 2025 (1 year 4 months)

Noida, Uttar Pradesh, India

Developing and optimizing generative AI solutions, robot data orchestration, and AI-driven applications for customer analytics, while scaling multilingual conversational AI, facial recognition systems, and real-time robot deployments using Flutter, AWS, and Edge Embedded Devices at Alphadroid India.

IIT Guwahati Technology Innovation and Development Foundation

Junior Research Fellow

June 2023 - May 2024 (1 year)

Pune, Maharashtra, India

Led AI & Computer Vision research on underwater surveillance, optimizing data pipelines, real-time dashboards, model optimization & inference along with model monitoring, while mentoring DRDO interns and contributing to the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) under DST.

Health View

Data Scientist

July 2019 - July 2021 (2 years 1 month)

Jaipur, Rajasthan, India

Developed NLP-driven content curation, user analytics, predictive models, and interactive dashboards to boost engagement and strategy at a health media platform.

The Akshaya Patra Foundation

Intern

June 2017 - June 2017 (1 month)

Jaipur, India

In the summers, we had proposed several models for "Automation of Dal Agitation and Mixing Process" that can serve for about 1,00,000 School children daily for Mid-Day meal program.

Education

Defense Institute of Advanced Technology (DIAT), DU, DRDO

Master of Technology - M. Tech, Automation & Robotics Engineering

· (September 2021 - May 2023)

The LNM Institute of Information Technology

Bachelor of Technology (B.Tech), Mechanical Engineering · (2015 - 2019)