

Driptanil Datta

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Experience

SDE-I
Ploutos AI Technologies Pvt Ltd (formerly Waterdip Labs) – Remote, Full-time | Bengaluru Nov 2024 - Present

Datachecks Enterprise Data Platform: datachecks.io

- Core contributor to the Datachecks SDK, delivering 350+ merged pull requests across 4 repositories spanning frontend and AI agent systems.
- Designed and implemented multi-agent AI systems with persistent memory (Mem0), RAG pipelines, and agent orchestration (dataset discovery, synthetic data generation).
- Led a 4-member frontend team using Next.js, delivering RBAC, workspaces, validations, cross-database comparison, data lineage, and profiling features.
- Partnered with founders to deliver core platform capabilities aligned with product strategy.
- Enabled on-prem deployments for the UAE Central Bank DUBAI's data migration project, supporting large-scale DB migrations and synthetic data QA.

Full Stack SDE Intern

Waterdip Labs Pvt Ltd – Remote, Part-time | Bengaluru Nov 2023 - Oct 2024

Datachecks SDK Open Source: github.com/datachecks/dcs-core

- Developed Datachecks, an open-source platform for large-scale database validation, designed for enterprise-grade use cases and adopted by data-intensive organizations, including John Deere.
- Architected and implemented the frontend interface using React, enabling interactive schema exploration, validation visualization, and rule-free configuration for complex datasets.

Vetscribe (Acquired): veroscribe.com

- Independently designed and built the first end-to-end MVP of Vetscribe.
- Developed a real-time speech-to-text transcription for live veterinarian-patient interactions, and LLM-based summarization into structured SOAP notes, achieving ~90% accuracy during pilot testing.

Certificates & Courses

Udemy

1. **The Complete Python Bootcamp: From Zero to Hero in Python** – 22 hours - Taught by [Jose Portilla](#), [Pierian Training](#)
 - CertificateID: [UC-d84df7b9-2791-45e5-b1c8-2d355d64681e](#)
2. **Python for Machine Learning & Data Science** - 44 hours - Taught by [Jose Portilla](#), [Pierian Training](#)
 - CertificateID: [UC-d0b057ba-5efe-4bcb-9db3-cab5763a0d30](#)
3. *(Learning)* **A deep understanding of Deep Learning & Neural Networks with Python** – 57.5 hours - Taught by [Mike X Cohen](#)
4. *(Learning)* **A deep understanding of AI large language model mechanisms** – 91 hours - Taught by [Mike X Cohen](#)
5. *(Learning)* **Practical AI with Python and Reinforcement Learning** - 26.5 hours - Taught by [Jose Portilla](#), [Pierian Training](#)

Education

Bachelor of Technology in Computer Science & Engineering | CGPA: 7.73/10 June 2021 - June 2025
Techno International New Town

Projects

House Hero Mobile Application: thehousehero.app

- Developed the House Hero Flutter app for end-to-end household maintenance and appliance management, enabling lifecycle monitoring, warranty tracking, and item organization.
- Launched on Google Play & Apple App Store (only in Australian Region).
- Built an AI-powered recommendation engine for personalized household task management, along side a Next.js Admin Dashboard of managing masterdata.

Skills

Technical Skills: Implementing AI agents, Web Development, Cross-platform applications, Supervised/Unsupervised Learning

Programming Languages: TypeScript, Rust (intermediate), Python, Dart

Frameworks & Libraries: Next.js, React.js, TailwindCSS, Flutter, Tauri, Actix Web, Docker, NumPy, Pandas, Scikit-Learn, LangChain, LangGraph, Prompt Engineering, n8n, PyTorch, PostgreSQL, SQLite, MongoDB, REST API, Websockets, HTML, CSS

Languages: English (proficient), Hindi (native)