

Govind Pradeep

AUTOMATION & AI ENGINEER

Profile

Engineer with ~7 years building automation and applied-AI systems end to end — autonomous browser agents, production computer-vision pipelines, and the cloud infrastructure that runs them unsupervised. I take systems from first prototype through production operation: training and shipping models, hardening automation against real-world failure, and leading the people who produce the ground-truth data behind it.

Experience

Senior Automation & AI Engineer, AsimovX

FEB 2024 — PRESENT

- **Own the production AWS data pipeline behind GolfTrak's shot data** — nine Lambda functions spanning ingest, quality control, alignment, scoring, daily reporting and alerting, backed by DynamoDB and S3.
- **Built GolfTrak's automated shot quality-control system:** two production Lambdas validating every capture a device uploads — parameter checks, then CNN/ONNX visual verification with a Bedrock Nemotron fallback, plus a rendered annotated video for human review. **86% recall** on range-mode ball-impact detection.
- **Lead a team of annotators** producing ground-truth data for the computer-vision pipeline, and built the PyQt5 desktop tooling they use daily — per-user attribution, a correction/verification workflow, and live physics feedback so a correction's effect is visible immediately rather than discovered downstream.
- **Trained and shipped three neural networks** predicting spin rate, spin axis and club speed on a dataset of **~2.4M rows**. Converted to CoreML for on-device iOS inference, cutting club-speed error from **20.5 km/h to 1.99 km/h** against the legacy model.
- **Built an autonomous negotiation agent** — a browser extension plus Flask service driving an authenticated session, pricing listings from photos via a Bedrock vision model and negotiating unattended. Runs continuously on EC2 with block detection and spam guards built from real incidents.
- **Built a fleet of five production scrapers** collecting **22,000+ profiles and posts**, each with its own deduplication and resume-after-failure logic.

DETAILS

LOCATION

Bangalore, India — open to remote

PHONE

+91 90619 05172

EMAIL

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LINKS

PORTFOLIO

d3vilsnar3.com

LINKEDIN

linkedin.com/in/devilasenare

WRITING

medium.com/@thewholeworldfun

CORE SKILLS

Python

Browser Automation

LLM & Agent Systems

AWS / Cloud

Computer Vision & ML

APIs & Backend

TOOLKIT

AWS Bedrock Playwright

Selenium Chrome MV3

Lambda DynamoDB

TensorFlow ONNX

CoreML Hugging Face

Rasa DialogFlow Flask

Express Docker

SwiftUI JavaScript SQL

LANGUAGES

English — Professional

Malayalam — Native

Experience (continued)

AI Engineer, [Accubits Technologies](#)

AUG 2019 — DEC 2023 · TRIVANDRUM

- **Deep Listening** — built a multi-modal information-extraction platform: Hugging Face models for object detection, tagging and image description; translation and transcription for audio; combined handling for video; summarization and keyword extraction for text. Integrated a fine-tuned LLaMA with a vector database for retrieval-backed extraction and chat.
- **CipBot (Cipla)** — an intelligent WhatsApp chatbot built on Rasa connecting Cipla's procurement team with its vendors, surfacing internal database records through a structured chat flow with role-based options per user type, plus an admin panel for reviewing interactions and data traffic.
- **Trajectus (Computer Instruments)** — an IVR-based chatbot on Google DialogFlow handling medical query calls, delivered as outsourced client work.
- **Coglide** — built "Cori", an email service extracting contact details from inbound mail, and "Gx", a browser extension synchronising data from diverse marketing websites into Coglide's database. Owned the data scraping and automation across the product, and ran the research server feeding its marketing data.
- **Emotyx** — created and deployed the Python backend network extracting actionable customer-understanding insights from real-time CCTV footage, including footage management and recording.
- **Attendance Management System** — owned the entire back-end code structure for student and attendance records, and supported the AI image-processing work.
- **Also delivered** — a GPT-3.5 minutes-to-meeting generator that transcribed calls and wrote up minutes; shell tooling verifying API endpoint data and hardening it against SQL injection, shipped as a Postman collection; a Selenium scraper collecting marketing data across multiple social networks; a back-end network for the Learning & Development team; a scraping service for Talent Acquisition; and the back-end and detection module for PPE-kit detection.

Education

B.Tech, Computer Science

Sree Chitra Thirunal College of Engineering, Thiruvananthapuram · 2019

Higher Secondary, Computer Science

CBSE, Kendriya Vidyalaya Pattom, Thiruvananthapuram · 2015

Certification & Writing

Python: Programming Efficiently

LinkedIn Learning

How I Created My First Discord Bot Using JavaScript

Technical article · Medium

Interests

Competitive Dota 2 — ranked on the SEA leaderboards. Reading, gaming, and taking apart systems to work out where they break.