

Anuran Roy

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I'd start with one thing: **I love data and creating value out of data.** An adaptable and creative candidate focused on getting work done in all sorts of environments, I build stuff that focuses on real-world problems, and solves them in a feasible way that boosts business RoI. A staunch believer of the 0 to 1 method of thinking, you can always bank on me to get work done, even within constraints. A constant team work enthusiast, I love working in teams in all sorts of environments.

Skills

Backend Development (Django, Django REST Framework, FastAPI, Starlite, ExpressJS (learning), Echo (learning), Spring Boot (learning), Spring MVC (learning))

Programming (Python, C/C++, Java (learning), Shell Scripting, R, JavaScript, TypeScript, Go(learning), Julia (learning), Rust(learning), Elixir (learning).)

Data Analysis and Visualization (Jupyter, Pandas, Numpy, Matplotlib, Plotly, Seaborn, Scipy, Ggplot, Dash, Streamlit, Plots.jl, Grafana, Kibana)

Machine/Deep Learning (scikit-learn, PyTorch, Keras, skorch, PyTorch Lightning (learning), fastai (learning), Flux.jl (learning), Prompt Engineering)

Business Analytics/BI (PowerBI (learning)) | **Cloud Services** (Heroku, Glitch, Replit, AWS (learning), GCP (learning))

Data Engineering (Kafka, Spark (learning), Hadoop (learning))

Projects

SerPyTor (under development), 09/2022
A low-code data tool (library-cum-framework) for data folks. [🔗](#)

Pymetrix (previously Analyx), 11/2021
An Open Source Plug-n-Play Analytics Python Library with 10+ Github stars [🔗](#)

OpnEco, 07/2021
Content writing suite for writers with 3 modules (Trending on Product Hunt on Jul 28 2021) [🔗](#)

Sentiment Analyzer, Throw in a sentence, get a sentiment! [🔗](#) 12/2022 – 12/2022

MapSec, Take back your digital privacy, get to know security issues [🔗](#) 09/2022 – present

Columbus, Auto-generate documentation that feels like discourse using LLMs [🔗](#) 04/2023 – present

Moovy, End-to-end movie rating system (under development) 03/2023 – present

Achievements

OpnEco ranked on ProductHunt trending #28, Vosk Blog ranked on at #1 on Google Page 1, 100+ GitHub Stars across repositories, Finalist- Hack-n-Pitch (E-Summit 2021, E-Cell JU), FossFolio listed on official JAMStack Website, Blog referenced by Ansible in Codeberg

Works

Machine Learning Engineering Intern, CloudSEK [🔗](#) 09/2022 – 12/2022 | Remote, India

- Interning in the **Digital Risk Protection** (DRP) department, on the Fake Domain Finder product.
- Created and augmented a dataset for webpage elements, later used by the entire DRP Team.
- Developed a logo detection model to detect client logos from webpage screenshots, based on state-of-the-art YOLOv7.
- Improved performance by more than 80% speedup with equal or better inferences than the pre-existing model (results taken from testing phase).
- Worked on a gator model to filter out domain sales pages to speedup the inference pipeline by eliminating false positives by more than 20% (results taken from testing phase).
- Dockerized the said model for testing by the DRP QA team.

Deep Learning Mentee, Google DeepMind 06/2022 – 07/2022 | Remote

- Selected as a mentee under a team of 3 researchers from Google Deepmind, North Carolina State University, and Carnegie Mellon University.
- Devised 10+ activation functions and their limitations in usecases of Neural Networks.
- Exploring and working on 2 novel activation functions that can overcome limitations of those currently in use.
- Running 5+ tests on the usecases and obtaining performance metrics for the same using **sklearn**, **PyTorch** and **Flux.jl**.

AWS Machine Learning Scholarship Program, Udacity 06/2021 – 10/2021 | Remote

- Completed the 3 courses allotted- Deep Learning with PyTorch, Software Design and Development, and Machine Learning on AWS.

Contract developer (Freelance), Haplet LLC 06/2022 – 09/2022 | Remote

- Developed the FastAPI backend with **20+ endpoints** for an MVP of a product (stealth).
- Integrated the backend with a custom-trained model based on YOLOv5 algorithm, to extract data from official documents using text and image detection.
- Created endpoints to mint the extracted data as NFTs by making API calls.
- Created the design document for the same.

Backend Maintainer, Chota Dhobi App 01/2023 – present

- Co-leading a team of students for maintaining Chota Dhobi, the college laundry app.
- Improved performance of admin-facing APIs by a **factor of 2.8x on average**, and the most frequently used **data-intensive APIs by 4x**.
- App can handle 1k IO-intensive concurrent connections at its peak, in pure Python.
- Rewrote essential chunks from scratch for improved performance.

Core Developer, Applied AI, Arakoo.ai [🔗](#) 05/2023 – present

- Bridging the gap between AI and Software Engineering at Arakoo.ai
- Testing and finding bugs across various projects - 17 found till date
- Researching and developing methods for fine-tuning LLMs and optimizing LLM costs.

- Building EdgeChains - the production-ready LLM SDK for Enterprise, built to scale (on top of JVM)
- Onboarding users, developing documentation

Education

B.Tech, CSE with specialization in IoT, *Vellore Institute of Technology, Vellore*
Final Year

2020 – 2024 | Vellore, India

Certificates

Python (Basic) [🔗 \(HackerRank\)](#), **SQL (Basic)** [🔗 \(HackerRank\)](#), **MongoDB Basics** [🔗 \(MongoDB University\)](#), **Data Visualization** [🔗 \(Kaggle\)](#),
Data Science with R Programming [🔗 \(Simplilearn\)](#), **Introduction to Machine Learning** [🔗 \(Kaggle\)](#),
Participation Certificate (Finalist) [🔗 \(Team Hack-n-Pitch, Jadavpur University\)](#),
Neural Networks and Deep Learning [🔗 \(Coursera - DeepLearning.ai\)](#)