

Anuran Roy

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🧠 SKILLS

Backend Development

Django, Django REST Framework, FastAPI, NodeJS (learning), Golang (learning) MongoDB, SQLite, PostgreSQL

Content Writing

Technical Writing, SEO-friendly content

Programming

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

Frontend Development

ReactJS(learning), Bootstrap, Tailwind

Data Science and Visualization

Jupyter, Pandas, Numpy, Matplotlib, Plotly, Seaborn, Scipy, R, Ggplot, Dash (learning), Spark (learning)

Business Analytics/BI

PowerBI (learning)

Machine/Deep Learning

scikit-learn, PyTorch, Keras

Cloud Services

Heroku, Glitch, Replit, AWS (learning), GCP (learning)

📁 PROJECTS

PortSploit (under development), Supercharging nmap for Python. 03/2022

- **Motivation:** PortSploit supercharges NMap. **Features:** session management, session resume, bulk scans, data serialization, easy exports, report generation, easy integration with codebases and workflows, utility-first approach, and data generation based on target info.

Tech Stack: Python Source Code [↗](#)

Pymetrix (previously Analyx), An Open Source Plug-n-Play Analytics Python Library 11/2021

- **Motivation:** Pymetrix aims to provide function-level analytics and UX Metrics by providing wrappers to represent objects as nodes in a graph, extensible with plugins, with **10+ tests** for different internal APIs using Pytest.

Tech Stack: NetworkX, Matplotlib, SQLite/PostgreSQL, Tortoise-ORM, Plotly, Pytest. Source Code [↗](#) Stars: 11

CLI Assistant, to edit spreadsheets using either Google or Vosk Speech2Text. 11/2021

- **Motivation:** To boost productivity, while managing and filling data, we can use voice commands to edit and enter data. **Corresponding blog post [↗](#) ranked #1 on page 1 of Google [↗](#)**

Tech Stack: Python, OpenPyxl, vosk-api

Im2SQL, Image to SQL Converter [↗](#) 10/2021

- **Motivation:** A web app to reduce the cumbersome task of writing data entry statements manually, Im2SQL converts Table Images to SQL INSERT commands that are returned in a textbox within max 8 seconds.

Tech Stack: Heroku, FastAPI, OpenCV + Tesseract, Django, HTML/CSS. Also available as CLI offline version [↗](#) . Source code at: Source code [↗](#)

Campus Saathi, Student-management interaction forum [↗](#) 09/2021

- **Motivation:** Campus Saathi is an open forum where issues posted by students can be publicly tracked, with **10+ features** - to address lack of accountability and transparency in campus administration.

Tech Stack: Replit, Django, HTML/CSS, JavaScript. Source code at: Campus Saathi [↗](#)

Alucard.ai, CLI Desktop Assistant [↗](#) 08/2021

- **Motivation:** Powered by two types of extensions (called Engines and Packs), Alucard intended to run cross-platform programs for various small tasks by harnessing the power of different platforms and serving as a cross-platform bridge on top of base Python.

Tech Stack: Wolfram Python SDK, Python

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

- **Motivation:** Content writers often have to spend a lot of time working on content metadata. OpnEco has currently 3 features- content-based keyword suggestions, content emotion check, and target keywords' Google Trends data.

Tech Stack: Django, NLTK, Plotly Express, Text2Emotion, PyTrends, Pandas, SQLite, HTML/CSS/JS Stars: 14

🏆 ACHIEVEMENTS

- OpnEco ranked on ProductHunt trending #28

- Vosk Blog ranked on at #1 on Google Page 1

📁 EXPERIENCE

GDC Fellow 2022, Global Digital Corps (with Pupilfirst) [↗](#) 01/2022 – present

- Selected as one of the 40 candidates out of 48000+ applicants for being trained in Software Engineering.

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

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

GRIP Intern (Data Science and Business Analytics), The Sparks Foundation [↗](#) 07/2021 – 09/2021

- Completed the 3 tasks allotted - data wrangling (Pandas), data visualization (seaborn), regression modelling (sklearn), dashboarding (Dash).

Content Development Volunteer, Pycon India 2021 04/2021 – 09/2021

- Reviewed 5+ articles for the PyCon India 2021 Blog., and contributed directly to an article that underwent stringent quality testing.

🎓 EDUCATION

B.Tech, CSE with specialization in IoT, Vellore Institute of Technology, Vellore 2020 – 2024

📁 COURSES

Data Structures and Algorithms, Vellore Institute of Technology

01/2022 – present

Natural Language Processing , <i>Vellore Institute of Technology</i> <ul style="list-style-type: none"> Developed an NLP Project in Python to recognize voice commands to edit spreadsheets data. Source Code ↗ Project Marks received: 95/100 	08/2021 – 01/2022
Data Visualization , <i>Vellore Institute of Technology</i> <ul style="list-style-type: none"> Analyzed the Global Terrorism Index for extracting insights. Project Marks received: 82/100 	08/2021 – 01/2022
Object Oriented Programming with C++ , <i>Vellore Institute of Technology</i> <ul style="list-style-type: none"> Implemented a crude, barebones blockchain in C++. Source code ↗ Grade: 'A', Score: 83/100 	02/2021 – 08/2021
Problem Solving and Programming with Python , <i>Vellore Institute of Technology</i> <ul style="list-style-type: none"> Grade: 'S', Score: 93/100 	11/2020 – 02/2021

ORGANISATIONS

FOSS United , <i>Outer Circle Member</i>	12/2021 – present
naas.ai , <i>Open Source Contributor</i>	12/2021 – present
Datakind Bengaluru , <i>Volunteer</i>	11/2021 – present
FreeCodeCamp , <i>Technical Writer</i>	09/2021 – present
Tezos Developers' Community (TDC) Vellore , <i>Club Lead</i>	08/2021 – present
Centre for Social Entrepreneurship and Development (CSED) , <i>VIT</i> , <i>Editorial Head</i> ↗ <ul style="list-style-type: none"> Authored content, SEO and SEM strategies for better audience reach in tandem with marketing and tech departments, reaching 1000+ (average) to 36000+ audience (highest) and boosting reach by more than 30%. Led the documentation team for Strategia, a hands-on event that emulates pitching to investors with participants' ideas from various domains. Helped organize and market for the speaker-led activity-based events StartDown, Start-it-up. 	01/2021 – present
IEEE Computer Society , <i>VIT</i> , <i>Senior Core Committee Member</i> <ul style="list-style-type: none"> Contributed 20+ questions to the Question Bank for Core Committee Selections, created the authentication backend of Selection Exam Portal 2021, with 5+ tests. Contributing to the Selection Exam Portal 2022. Contributed to an event as a speaker, as well as addressing the doubts of participants 	01/2021 – present
The Hindu Education Plus Club , <i>VIT</i> , <i>Core Committee Member</i> , <i>Design</i> <ul style="list-style-type: none"> Designed posters for blog posts and events using Figma and Canva 	12/2020 – 11/2021

CERTIFICATES

Python (Basic) ↗ <i>HackerRank</i>	Python Proficiency Test ↗ <i>Pluralsight</i>	MongoDB Basics ↗ <i>MongoDB University</i>	Data Visualization ↗ <i>Kaggle</i>
Data Science with R Programming ↗ <i>Simplilearn</i>	Introduction to Machine Learning ↗ <i>Kaggle</i>	Hypothesis Testing ↗ <i>UpGrad</i>	Cybersecurity Essentials ↗ <i>Cisco NetAcademy</i>
The Strategy of Content Marketing ↗ <i>Copyblogger (in association with UC Davis)</i>	Participation Certificate (Finalist) ↗ <i>Team Hack-n-Pitch, Jadavpur University</i>		