Anuran Roy
Summer Research Intern

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SKILLS

Backend Development
Django, 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, 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

Machine/Deep Learning
scikit-learn, PyTorch, Keras

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

PROJECTS

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 🔗

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

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, *Vellore Institute of Technology*   08/2021 – 01/2022
- Developed an NLP Project in Python to recognize voice commands to edit spreadsheets data. Source Code 🔗
- Project Marks received: 95/100

Data Visualization, *Vellore Institute of Technology*   08/2021 – 01/2022
- Analyzed the Global Terrorism Index for extracting insights.
- Project Marks received: 82/100

Object Oriented Programming with C++, *Vellore Institute of Technology*   02/2021 – 08/2021
- Implemented a crude, barebones blockchain in C++. Source code 🔗
- Grade: 'A', Score: 83/100

Problem Solving and Programming with Python, *Vellore Institute of Technology*   11/2020 – 02/2021
- Grade: 'S', Score: 93/100

🤝 ORGANISATIONS

FOSS United, *Outer Circle Member*   12/2021 – present

naas.ai, *Open Source Contributor*   12/2021 – present

Datakind Bengaluru, *Volunteer*   11/2021 – present

FreeCodeCamp, *Technical Writer*   09/2021 – present

Tezos Developers' Community (TDC) Vellore, *Club Lead*   08/2021 – present

Centre for Social Entrepreneurship and Development (CSED), VIT, *Editorial Head* 🔗   01/2021 – present
- 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%.**

IEEE Computer Society, VIT, *Senior Core Committee Member*   01/2021 – present
- Contributed 20+ questions to the Question Bank for Core Committee Selections, created the authentication backend of Selection Exam Portal 2022, with 5+ tests.

The Hindu Education Plus Club, VIT, *Core Committee Member, Design*   12/2020 – 11/2021
- Designed posters for blog posts and events using Figma and Canva

🎖 CERTIFICATES

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

🗄 PUBLICATIONS

The Net Disconnect: A Statistical Study on Internet Shutdowns in India,   07/2021
Centre for National Policy Research 🔗
- Studied the scenario of internet shutdowns in India.
- Statistically visualized the impact of shutdowns on the GDP of India.
- Proposed a rough framework of solutions for tackling internet shutdowns.