

Anuran Roy

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Education

2020 – 2024
Vellore, India

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

Skills

Backend Development

Django, FastAPI, NodeJS (learning), MongoDB, SQLite, PostgreSQL

Machine/Deep Learning

scikit-learn, PyTorch, Keras

Programming

Python, C/C++, Shell Scripting, R, JavaScript

Content Writing

SEO-friendly content

Data Science and Visualization

Pandas, Numpy, Matplotlib, Plotly, Seaborn, Scipy, R, Ggplot

Business Analytics/BI

PowerBI

Projects

11/2021

Analyx, An Open Source Plug-n-Play Analytics Python Library [🔗](#)

- **Motivation:** There are few libraries in Python that provide function-level analytics, let alone measuring UX metrics.
- Analyx aims to be fill that gap by providing wrappers to represent objects as nodes in a graph.
- Can be extended with various plugins so that various metrics can be implemented with ease.

Tech Stack: NetworkX, Matplotlib, SQLite/ PostgreSQL, Tortoise-ORM. Source Code [🔗](#)

10/2021

Im2SQL, Image to SQL Converter [🔗](#)

- **Motivation:** Adding data to SQL Databases from a printed schema is often cumbersome and tedious.
- Im2SQL is a web app that converts Table Images to SQL INSERT commands.
- Users need to input the image containing the data rows with/without the column names. The respective SQL INSERT commands are generated and provided as the output.

Tech Stack: FastAPI (for API Backend), OpenCV + Tesseract (for OCR), Django (for rendering the makeshift frontend), HTML/CSS (for frontend) Also available as a CLI-only offline version [🔗](#). Source code at: Source code [🔗](#)

09/2021

Campus Saathi, Student-management interaction forum [🔗](#)

- **Motivation:** Lack of accountability and transparency in campus administration is rampant in higher education institutions across the country.
- Campus Saathi is an open forum where issues posted by students can be publicly tracked.
- All students can vote on posted issues to make sure relevant issues are highlighted.

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

07/2021

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

- **Motivation:** Content writers often have to spend a lot on time working on the metadata aspects of their content. This often leads to decreased content quality when deadlines are to be met.
- Made for content writers to aid them throughout the content writing process - from topic and keyword research to intent evaluation.
- Features: *OpnKeywords*: Get content-based keyword suggestions; *OpnEmo*: Get the emotion conveyed by content; *OpnInsights*: Get Google Trends data regarding the next keyword(s) to target.

Tech Stack: Django, NLTK, Plotly Express, Text2Emotion, PyTrends, vosk-api, Pandas, speech_recognition, SQLite, HTML/CSS/JS

Organisations

08/2021 – present
Vellore, India

Tezos Developers' Community (TDC) Vellore, Core Committee Member

01/2021 – present
Vellore, India

IEEE Computer Society, VIT, Core Committee Member

Courses

08/2021 – present
Vellore, India

Natural Language Processing, Vellore Institute of Technology

- Developed an NLP Project in Python to recognize voice Commands to edit spreadsheets data. Source Code [🔗](#)

08/2021 – present
Vellore, India

Data Visualization, Vellore Institute of Technology

02/2021 – 08/2021
Vellore, India

Object Oriented Programming with C++, Vellore Institute of Technology

- Developed a crude implementation of a barebones blockchain in C++. Source code [🔗](#)
- Grade: 'A'

11/2020 – 02/2021
Vellore, India

Problem Solving and Programming with Python, Vellore Institute of Technology

- Grade: 'S'

Certificates

- Python (Basic) by HackerRank [🔗](#)