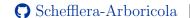
Aditi Juneja









WORK EXPERIENCE

Contributor - Google Summer of Code (NumFOCUS)

May 2024 - August 2024

Integrating NetworkX's and joblib's configuration systems into nx-parallel, switching the build tool from hatchling to setuptools, automating backend metadata updation through a pre-commit hook, improving and providing custom chunking capabilities for all existing algorithms. Beyond the proposed items, created a conda-forge feedstock for nx-parallel, started discussions on the future directions nx-parallel could go and accomplished various other enhancement and maintenance goals. Know more!

Independent Contractor - NumFOCUS

Jan 2024 - Mar 2024

Developed on nx-parallel, a newly added parallel backend for NetworkX utilizing joblib to parallelize graph algorithms; set up the asy benchmarks; analyzed the effects of chunking on speedups; added 15 parallel graph algorithms; integrated the Python 'entry-point' that exports backend metadata to the frontend library. Know more!

Skills/Tools learned: Python(API dispatching, Python package management, joblib-parallel algos, NetworkX-graph algos), ASV(for benchmarking), GitHub(CI/CD), maintained a large OSS, nurtured firsttime contributors, exchanged feedback and collaborated with Scientific Python and NVIDIA developers.

ACTIVITIES

- Maintainer/Core Developer of open-source projects NetworkX, nx-parallel (Volunteer)
- Presented talks, posters, sprints at SciPy US, EuroSciPy, PyCon India 2024 [Work presented]
- All India Rank 686 (out of 39,210 candidates) in Graduate Aptitude Test in Engineering(Data Science and AI) 2024
- Expository writings Carving out a path in a garden-blog, Math food play, LCG and Randomness, Hashing: water-balloon Holi game - notebook. And more!
- NPTEL courses Deep Learning(Top 5%), Social Networks(Top 1%) (Certificates on LinkedIn)
- Volunteering at conferences PyData Global 2024 (Reviewer), PyCon India 2024, PyDelhi chapter
- Contributed to SPECs, Joblib, NumPy, SciPy, ASV, etc. projects

Projects

[Code] E-commerce Website

A Flask-based e-commerce web app, featuring CRUD APIs, RBAC authentication. Features like order placement, inventory management, scheduled tasks (emailing reminders/reports), product recommendations, and other diverse functionalities for the 5 user types.

Tools/libraries used: Python, Flask, flask-restx, Docker, SQLite(RDBMS), sklearn, Celery, HTML, flask-mail, Github, shell scripting, Stripe (online payments API), Twilio (message sending API), Swagger

EDUCATION

University of Delhi

Bachelor of Science (Honours) Computer Science

2021 - 2024

Indian Institute of Technology, Madras(Remote)

Bachelor of Science in Data Science and Application

2021 - Present