

Aditi Juneja

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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 [asv 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 first-time 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

E-commerce Website

[[Code](#)]

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