

# Aditi Juneja

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## WORK EXPERIENCE

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### Independent Contractor - NumFOCUS (Scikit-image)

November 2024 - March 2025

Contributed towards incorporating an ‘entry-point’ based API dispatching mechanism in [scikit-image](#). Experimented with different approaches; collected feedback from scikit-image and [cuCIM](#) developers to improve the machinery and the user-API; coordinated and collaborated with developers from various Scientific Python open-source projects; contributed towards supporting other general activities in scikit-image. Checkout the [final report](#) to know more!

### Contributor - Google Summer of Code (NumFOCUS)

May 2024 - August 2024

Integrated [NetworkX](#)’s and [joblib](#)’s configuration systems into [nx-parallel](#), switched the build tool from hatchling to setuptools, automated backend metadata updation through a pre-commit hook, improved and provided 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. ([Final report](#) and [Bi-weekly blogs](#))

### Independent Contractor - NumFOCUS (NetworkX)

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 ‘entry-point’ that exports backend metadata to networkx. [Know more!](#)

**Skills/Tools learned:** Python (API dispatching, Python package management, [joblib](#) (parallel algos), [NetworkX](#) (graph algos), [scikit-image](#) (image analysis), [pytest](#) (testing)), [ASV](#) (for benchmarking), GitHub (CI/CD), maintaining large OSS and community.

## ACTIVITIES AND VOLUNTEER ROLES

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- Maintainer/Core Developer - [NetworkX](#), [nx-parallel](#), [Scientific Python](#)
- Google Summer of Code 2025 Mentor (NumFOCUS - NetworkX) [May 2025 - Aug 2025] [[Link](#)]
- Presented talks, posters, sprints at EuroSciPy, SciPy US, PyCon India, PyData Global [[Archive](#)]
- All India Rank 686 (out of 39,210 candidates) in [GATE\(Data Science and AI\)](#) 2024
- Communities and conferences: [SciPy India](#) (organizer), SciPy 2025 ([proceedings paper reviewer](#)), IndiaFOSS 2025 (“FOSS in Science” [devroom manager](#)), [DISC Unconference 2025](#), PyData Global 2024 and [PyDelhi](#) (talk proposal reviewer), PyCon US 2025 (proposal mentor)
- Expository writings - [Kruskal’s algorithm-blog](#), [Math food play](#), [LCG and Randomness](#) and [more!](#)
- NPTEL courses - Deep Learning(Top 5%), Social Networks(Top 1%) (Certificates - on [LinkedIn](#))

## PROJECTS

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### 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

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### University of Delhi

Bachelor of Science (Honors) Computer Science

2021 - 2024

### Indian Institute of Technology, Madras(Remote)

Bachelor of Science in Data Science and Application

2021 - Present