

Tanya Jain

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PROFILES [LinkedIn](#), [GitHub](#)

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EDUCATION

Amity University, Noida Noida, UP
B.Tech. in Computer Science and Engineering - 3 Continent, **Specialization:** Artificial Intelligence MAY 2020
Thesis: Analysis of Vehicle Collision Prediction Algorithms Using CNN. **Advisor:** [Dr. Garima Aggarwal](#) Class Rank 4/40
Semester Abroad, **Adelphi University**, New York, USA and **Birkbeck University**, London, UK

CERTIFICATION

Microsoft Technology Associate: Database Administration Fundamentals (MTA) SEPT 2019
Analytics for Business Intelligence by Amity Global Institute, Singapore DEC 2017
Fit in Deutsch 2 by Goethe Institut e.V. (with scholarship for best performance) OCT 2013

WORK EXPERIENCE

Prismberry Technologies *Senior Software Engineer* Noida, UP
MAR 2022 - PRESENT

- Working on transformer models in hugging face libraries to train a language model from scratch, and perform NLP based tasks.

Essentia Softserv LLP *Software Developer Engineer* Remote
JUN 2020 - FEB 2022

- Introduced key agile software engineering practices in the project workflow like database architecture design, API flow diagrams. Thus, reduced overall project's timeline to 40%.
- Automated key e-commerce tasks for clients like developed OCR for invoice data analysis and automated generation of e-commerce admin portal, thus reducing the project cost significantly.
- Designed, developed, tested, deployed and maintained web and mobile based applications.
- Trained a team of 20 students for the departmental roles: front-end, back-end, testing, devops
- Designed UI/UX, user story. Delivered talks to the team for shared learning.

LeBow College of Business, Drexel University *Technical Project Head* Philadelphia, PA
MAY 2019 - JUN 2019

- Developed a centralized contact database, designed website section, managed teammates for [A.J.Drexel Autism Institute](#) with [MIS 347: Domestic and Global Outsourcing](#) course students.

Jax Healthcare Foundation
Nov 2017 - Nov 18

- Interned as an executive member, developer and a graphic designer.

PROJECTS AND SKILLS

Vehicle Collision Detection, Built CNN to detect vehicle collision in image dataset via classification. Pytorch 2020
Neural Style Transfer, Displayed real-time video with style transferred from a selected art piece. Keras 2019
emouzisch, Developed a music web application based on real-time emotion detection. Tensorflow 2019
Kensho, Developed a static blog with read time predictor, articles recommendation. Pelican 2019
Wrote articles on recent projects and reads on autonomous technology.
Automated Gas Station, Simulated cars activity in a gas station via a console UI application. Java 2019
Generative art, Created generative art, and designed branding with Drawbot and Processing. Python, JS 2019
Systemd.service files, Wrote automated scripts to execute tasks using service files. Shell Script 2018
GitHub-Visual, Visualized GitHub user data with JSON queries via GraphQL API. NumPy, Pandas 2017
Web Scraping, Scraped News articles, professors' public emails to invite to Confluence'17. Python 2017

Operating Systems: GNU/Linux (Ubuntu), Mac OSX

Programming languages and mathematical packages: C, C++, MATLAB, GNU Octave

JavaScript frameworks: JQuery, React.js, Vue.js, Nuxt.js, d3.js

Design softwares: Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Adobe Premier Pro, Corel Draw, GIMP

COMMUNITY EXPERIENCE

4.1 Open Source Activities [GitHub](#), <https://github.com/tanyaacjain>

Pandas Used by 134,515 repositories. Starred by 21,292 users. Forked by 8,422 users 2018-19

- Improved [pandas.Index.contain docstring](#). **Reviewers:** [Marc Garcia](#), [Jeff Reback](#)

Pandas Mentoring,

Mentor: [Marc Garcia](#)

2019

- Visualised a bar plot with count of errors in the docstring via error codes.
- Created a DataFrame for each error code with its summary. Improved [pandas IO docstring](#).

Reviewers: [Marc Garcia](#), [William Ayd](#), [Joris Van](#)

Exercism, *Mentor*, Starred by 5,745 users. Forked by 1,000+ users 2018
Reviewed Python, JavaScript and Bash problems submitted via Git.

ALiAS, *Repository Maintainer* 2017 - PRESENT

- Contributed and reviewed code for the ALiAS repositories. 2018
- Developed React-Native ALiAS mobile application

4.2 Voluntary Activities

Designed the conference brochure for PyCon attendees. [PyCon India](#) 2020-21
Discussed the impact of Artificial Intelligence on jobs in future. [Collective Co-Living](#) 2019
Educated underprivileged children on science, literature and mathematics. [Inner Wheel Club](#) 2018-19
Facilitated a workshop to fix volunteered, malfunctioned linux systems. [LinuxChix India](#) 2018
Finalized main design theme and designed wire frames for the mobile app. [PyCon India](#) 2017
Contributed code front-end, designed poster, organised meetups. [LinuxChix India](#) 2017
Designed media kit, merchandise, backdrops. Moderated & Facilitated talks. [PyDelhi Conf](#) 2017

4.3 Speaking Engagements

"Writing tests in Vue.js with Vue Test Utils" [Essentia Softserv LLP](#) 2020
"Writing clean code and following agile practices" [Essentia Softserv LLP](#) 2020
"Understanding systemd.service files" [LinuxChix India](#) 2018
"Exploring NumPy using fractals" [PyDelhi](#) 2017
"Women in Python" Panel Discussion [PyDelhi Conf](#) 2017

ACHIEVEMENTS

5.1 Prizes and Honors

- **Shri Baljit Shastri Award for Best in Human Values and Tradition.** *Most coveted in Amity University.* 2020
- **Best Website Design Award.** [TRACE 2018 Conference, Amity University](#) 2018
- **Best GIS web app developed in ASET.** Detected and analyzed irrigation and soil mineral levels in Himalayan region for [CRC](#) researchers, under the Government of India. **Advisor:** [Dr. Madhuri Kumari](#) 2017
- **MyGov event** Invited by Ministry of Electronics and Information Technology for volunteerism and participative governance, graced by Hon'ble Prime Minister of India, [Shri Narendra Modi](#) 2014

5.2 Research and Publications

Jain Tanya, Garima Aggarwal and Sumita Gupta. "Analysis of Vehicle Collision Prediction Algorithms Using CNN." 2021
"A/B Testing using Bayesian Statistics", Technical Paper 2017
IIIT Delhi - Building Better Village. **Finalist research proposal** 2016
"What is better Gandhigiri or Dadagiri?", article on Gandhi Jayanti. Indian Express Newspaper. 2009

INSTITUTIONAL SERVICE

Amity University, Noida

- Moderated and Facilitated research paper presentations. [Confluence 2018.](#) 2018
 - Designed business proposal for Amity's annual tech conference. [Confluence 2017.](#) 2017
- ALiAS Tech Society**, *Founding member, President (2018), Vice President (2017)* 2016-20
- Initiated community to foster open source culture, collaborative work
 - Organized daily meetups, weekly calls, events, linux installation drive, *Hacktoberfest*
 - Encouraged introduction of new Python course in institution.
 - Participated in "**Computer Networks, Linux Study Group**" by [Prof. Dr. Priya Ranjan](#).
 - Supervised, participated in "**Front-End study group**", "**Machine Learning study group**".
- Strokes Fine Arts Society**, *Vice President (2019)* 2016-20