Tanya Jain

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PROFILES LinkedIn, GitHub   Powered by LaTeX

EDUCATION

Amity University Uttar Pradesh, Noida (AUUP)   Uttar Pradesh, India
B.Tech. in Computer Science and Engineering - 3 Continent, focused on Artificial Intelligence   GPA: 7.68/10.0, AUGUST 2020
    Advisor: Dr. Garima Aggarwal
Thesis: Analysis of Vehicle Collision Prediction Algorithms Using CNN.

Semester Abroad, Adelphi University, Garden City, New York, USA
Semester Abroad, Birkbeck University, London, UK

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

WORK EXPERIENCE

Essentia Softserv LLP   Remote
Software Developer Engineer   JUNE 2020 - PRESENT

    Designed, developed, tested, deployed and maintained web and mobile based applications.
    Managed agile project workflow and team. Designed UI/UX, user story.
    Delivered talks to the team for shared learning.

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

    Interned as an executive member, developer and a graphic designer.   NOVEMBER 2017 - 18

PROJECTS

Vehicle Collision Detection, `Pytorch`   MARCH 2020
    Built CNN to detect vehicle collision in image dataset via classification.

Neural Style Transfer, `Keras`   NOVEMBER 2019
    Displayed real-time video with style transferred from a selected art piece.

emouzisch, `Tensorflow, HTML - CSS - JS`   OCTOBER 2019
    Developed a music web application based on real-time emotion detection.

Kensho, `Python - Pelican, HTML - CSS - JS`   APRIL 2019 - PRESENT
    Developed a static blog with read time predictor, articles recommendation.
    Wrote articles on recent projects and reads on autonomous technology.

Automated Gas Station, `Java`   MARCH 2019
    Simulated a gas station in console UI application.

Generative art, `Python - Drawbot, Pagebot; Processing.JS`   OCTOBER 2019
    Created generative art, and designed branding kits with it.

Systemd.service files, `Shell Scripting`   FEBRUARY 2018
    Wrote automated scripts to execute tasks using service files.

GitHub-Visual, `Python - NumPy, Pandas, JSON, GraphQL`   SEPTEMBER 2017
    Visualized GitHub user data with JSON queries via GraphQL API.

Web Scraping, `Python`   FEBRUARY 2018
    Scraped News articles, professors' public emails to invite to Confluence'17.

OTHER SKILLS

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
Other: GNU/Linux (Ubuntu), Mac OSX

Community Experience

5.1 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 - 2019
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*   January 2017 - Present
Contributed and reviewed code for the ALiAS repositories.
Developed React-Native ALiAS mobile application (Summer 2018)

5.2 Voluntary Activities

Designed the conference brochure for PyCon attendees, speakers and volunteers. *PyCon India* (2020)
Discussed the impact of Artificial Intelligence and enhancing skills to minimize job risk. *Collective Co-Living* (2019)
Educated underprivileged children on science, literature and mathematics. *Inner Wheel Club* (2018-19)
Facilitated a fun learning workshop to correct volunteered, malfunctioned systems. *LinuxChix India* (2018)
Finalized main design theme and designed wire frames for the mobile application. *PyCon India* (2017)
Contributed code front-end, designed poster, organised meetups. *LinuxChix India* (2017)
Designed media kit, T-shirts, backdrops, welcome kit. Moderated & Facilitated talks. *PyDelhi Conf* (2017)

5.3 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

6.1 Prizes and Honors

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

6.2 Research and Publications

"Analysis of Vehicle Collision Prediction Algorithms Using CNN", Springer Lecture Notes on Data Engineering and Communications Technologies (ICDAM 2020, in press).
"A/B Testing using Bayesian Statistics", Technical Paper (Unpublished, 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

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 - Present)
Initiated club cum community to foster open source culture, shared learning, collaborative work, community bonding.
Organized daily meetups, weekly calls, annual signature events:
"Kickstart CSE", **"Python 101"**, **"Linux installation drive"**, **"Hacktoberfest"**.
Encouraged introduction of new Python course in institution.
"Computer Networks, Linux Study Group" by Prof. Dr. Priya Ranjan. Participated
"Front-End study group", **"Machine Learning study group"**. Supervised and participated

Strokes Fine Arts Society, *Vice President (2019)*