PERSONAL INFORMATION

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Date of birth 10 October 2000 | Nationality Indian

EDUCATION

Oct. 2023 – Ongoing

Masters of Science in Computer Science (Specialization in AI) | Enrolled
Albert Ludwigs University of Freiburg, WS2023/24

Aug. 2018 – July 2022

Bachelor of Engineering in Computer Science | 9.57/10 | 1.2/4 ECTS Grade
Chandigarh College of Engineering and Technology (CCET), Panjab University, Chandigarh
– *University Gold Medallist* in CSE batch of 2018-22.
– **Bachelor Thesis:** Smart Transportation Systems using AI and IoT: A Modern Day Approach.
– **Chairperson CCET ACM Student Chapter (2020 – 2021):** Proactively led a team of 12 members coordinating with the faculty mentor and sponsor, thereby, scaling the community to 162 members through 17 events including webinars, competitions, and workshop focusing on developing technical and hands-on skills. Founding Ideator of the Chapter's Technical Magazine, **Digital Outlet**.
– **Head Website (2020 – 2021):** Enhanced Website User Interface. Researched, implemented, and monitored web pages for continuous improvement. Used programming capabilities in PHP, MySQL, HTML, CSS, and other libraries as needed and helped sophomores learn the same for future development.

Apr. 2017 – July 2018

All India Senior School Certificate / Class XII CBSE | 90.80%
Government Model Sr. Secondary School, Sector 35-D, Chandigarh

Mar. 2015 – June 2016

Indian Certificate of Secondary Education / Class X | 95.40%
Tender Heart High School, Sector 33-B, Chandigarh

RESEARCH INTERESTS

– Artificial Intelligence, Self Supervised Learning, Multidimensional Data, Data Mining, Modeling, and Analysis

PUBLICATIONS

[1] "Evaluating the sustainable COVID-19 vaccination framework of India using Recurrent Neural Networks (Accepted Article)". In: *Wireless Personal Communications, Springer Nature (IF: 2.2)* (2023).

[2] "Peptide Utility (PU) search server: A new tool for peptide sequence search from multiple databases". In: *Heliyon, Elsevier (IF: 3.772)* (2022). URL: https://doi.org/10.1016/j.heliyon.2022.e12283.

[3] "Analysis & Prognosis of Sustainable Development Goals using Big Data-based Approach during COVID-19 Pandemic". In: *Sustainable Technology and Entrepreneurship, Elsevier* (2022), p. 100012. URL: https://doi.org/10.1016/j.stae.2022.100012.

[4] "A novel Smart Transportation based framework interlinking the advancements in Technology and System Engineering". In: *Proceedings of International Conference on Smart Systems and Advanced Computing*. CEUR Workshop Proceedings, 2022. URL: http://ceur-ws.org/Vol-3080/5.pdf.

[5] "An Inquisitive Prospect on the Shift Toward Online Media, Before, During, and After the COVID-19 Pandemic: A Technological Analysis". In: *Advances in Data Computing, Communication and Security*. Springer Singapore, 2022. URL: https://doi.org/10.1007/978-981-16-8403-6_20.

[6] "Predicting Catastrophic Events Using Machine Learning Models For Natural Language Processing". In: *Data Mining Approaches for Big Data and Sentiment Analysis in Social Media* (2021). URL: https://doi.org/10.4018/978-1-7998-8413-2.ch010.

[7] "An Exploratory Analysis on the Unfold of Fake News During COVID-19 Pandemic". In: *Smart Systems: Innovations in Computing*. Springer Singapore, 2022, pp. 259–272. URL: https://doi.org/10.1007/978-981-16-2877-1_24.

[8] "Experimental Analysis of Throughput for TCP and UDP Traffic in a Network Scenario during Link Failure (In-Press, Copyediting Phase)". In: *Iraqi Journal of Science (IJS)* (2022).

[9] "An Investigative Study Into The Impact Of Artificial Intelligence And Internet Of Things In Modern Times And Hereafter". In: *AAP CRC Press, Taylor & Francis Group* (2021). URL: https://doi.org/10.1201/9781003369066-14.

[10] "An OWA based MCDM framework for analyzing multidimensional Twitter data of Citizen-Government Engagement (Submitted)". In: *International Journal of Fuzzy Systems* (2022).

TECHNICAL SKILLS

Programming Languages	– C, C++, Python, JavaScript
Web Technologies	– Django, HTML, CSS, Bootstrap, JavaScript
Databases	– MySQL, MongoDB
Developer Tools	– Git, Google Cloud Platform, VS Code, PyCharm, NodeJS, Watson Studio
Certifications	– ML with Python, Deep Learning Specialization, IBM Data Science Capstone, **Other Certifications**

PROJECTS

Deep Learning Module – Prediction of rent of a room developed from scratch without making use of any third-party libraries.

Fake News Vs True News – Made use of Logistic Regression Model, Decision Tree Classifier, and Artificial Neural Networks for the Text classification task achieving an accuracy of 99.63%.

Social Rest APIs – Built Rest-APIs for User On-Boarding and Interaction, which are common in a Social Networking Application, and unit tested them using Postman.

VOLUNTEER EXPERIENCE

– Delivered Seminar, on "AI, ML, and IoT in National Language", as a part of A four-day national webinar on the role of technology in making India Self Reliant, by CSTT, Indian Ministry of Education.

– Delivered various workshops and hands-on technical sessions under the Student Speaker Program of CCET ACM Student Chapter entitled, 'Session on Python Fundamentals, March 2021', 'Hacktoberfest 2020: Let's Collaborate together by ACM CCET, October 2020', 'Building your first skill with Amazon Alexa, February 2020'. Also, organized 'COVID-Codathon, April 2020'.

WORK EXPERIENCE

Aug. 2022 – Sep. 2023

Associate Software Engineer, Product Development
Click Labs Pvt. Ltd. | Jungleworks, IT Park Panchkula

– Worked as a Backend Developer at Tookan Product of Jungleworks.
– Successfully developed and delivered 40+ new features, amidst working on 7 different servers for the product as per SRS and Tech-Stack including NodeJS, MySQL, MongoDB, and Express.
– Improvised the server-side architecture with frequent optimizations in the product like Mongo version updates, SQL query, and code optimizations for fetching large amounts of data in Milliseconds. Also, fixed reported issues in the Product besides delegating intriguing tasks to software developer interns.

Jan. 2022 – July 2022

Software Engineering Intern, Product Development
Click Labs Pvt. Ltd. | Jungleworks, IT Park Panchkula

– Developed Rest-APIs for feature requests from clients. Assisted senior developers in removing possibilities of SQL Injection. Integrated Freshworks in Tookan Product to enhance sales experience.
– Developed a minor project of Package Delivery System using NodeJS and Angular. (Check Here)

Aug. 2021 – Sept. 2021

Software Engineering Intern
BlazOp Pvt. Ltd., San Francisco (Remote)

– Worked on a Data Engineering Project using Python Development strategies to get insights and subsequently, perform a comparative analysis of Yang Models of desired products.
– Utilized tools like pyang, xmldiff, and followed Agile-based Software Engineering techniques.

Apr. 2021 – Oct. 2021

Research Intern
Design and Innovation Centre, MHRD, and Panjab University, Chandigarh

– Worked on Predictive Maintenance for early prediction of faults in machines using Vibration Analysis.
– Performed data gathering, exploration, and feature extraction for time domain and frequency domain features besides researching over 15 types of machine faults.

Nov. 2020 – June 2021

Molecular Dynamics, Server Design, and Data Mining Intern
Department of Biophysics, Panjab University, Chandigarh

– Worked on a research-based project for building a Peptide Utility Sequence Search Server that helps find characteristic features between Helix-Helix interactions of proteins for a given peptide to cater for the needs of Biophysicists.

ACHIEVEMENTS

– Awarded Employee of the Quarter by Jungleworks for Nov. 2022 -Jan. 2023.
– Merit Scholar for Academic Year 2019-20, 2020-21, 2021-22.
– Secured 1st Runner Up in Internal Hackathon organized by Jungleworks, 2022.
– Secured 2nd position in Unicode Machine Learning Summer Course 2021 Project Evaluation.
– Selected amongst the top 50 candidates who participated in ACM India Summer School 2021 in NLP.
– Selected and Participated in Arogaya CIBioD, ICMR, PGIMER - Chandigarh Short Term Attachment (STA) Programme held from March to September 2021.
– Microsoft Technology Associate: Introduction to Programming Using Python - Certified 2020
– Secured 1st position in Internal Skill India Hackathon organized by Institute's Innovation Cell, CCET.