

Tanvi Sankhyan

PYTHON DEVELOPER · SOFTWARE DEVELOPER

Thunderbay, Canada

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Education

Lakehead University

MSc in Computer Sciences

Ontario, Canada

Sept 2022- Current

- **Courses:** Computer Security, Artificial Intelligence, Deep Learning, Graduate Seminar, Research Methodology

Jaypee University of Information and Technology

BTech(Hons.) in Computer Science and Technology

Solan, India

May 2017 - May 2021

- Graduated with Honors degree
- **Courses:** Algorithms, Database, Python, Deep learning, Data Structure, Operating Systems, C, Java, C++, Financial Management, MATLAB, Signals and Systems, Web Technology, Multimedia and Development, Computer Graphics, Computer Networks, Digital Image Processing, Unix Programming, Microprocessor, and Controller

Blue Star Sr. Sec. School

High School

Hamirpur, India

Apr 2016 - Apr 2017

- Passed with Distinction
- Specialised in Physics, Chemistry, and Maths

D.A.V. Public School

Junior High School

Hamirpur, India

Apr 2003 - Apr 2016

- Passed with Distinction
- Placed second with 9.8/10

Projects

Metaverse Ecosystem

Lakehead University

Thunderbay, CA

Jan 2023 - current

- Study of Metaverse Ecosystem, basically a study of immersive technology and create a prototype in a group of six members and generate a position paper at the end of it.
- **Technical Skills:** Unity, C#
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking.

Portfolio

Own project

Thunderbay, CA

Nov 2022 - Dec 2022

- Created my portfolio using the technologies below.
- **Technical Skills:** HTML, CSS, Javascript, Three.js, ViteJS

Augmented Reality In Education Field

Jaypee University of Information and Technology

Solan, IND

Nov 2019 - Dec 2020

- Worked in a team of two to create a project suitable for primary school students.
- Created 3D counting games, Shapes, and Animals with their labeled parts in augmented space.
- **Technical Skills:** C#, Unity.
- **Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking.

Deep Learning Specialization Projects

Jaypee University of Information and Technology

Solan, IND

Nov 2019 - Dec 2020

- -Implemented a 2-class classification neural network with single hidden layer(using NumPy, Pandas and Matplotlib)
- -Implemented a Deep Neural Network for Image Classification: Application using "Cat vs nonCat" dataset using package s NumPy, Matplotlib, h5py, PIL and SciPy Created 3D counting games, Shapes, and Animals with their labeled parts in augmented space.
- **Technical Skills:** NumPy, Matplotlib, h5py, PIL and SciPy.

Certification

Data Structure with Python

Udemy

Online

2022

- Linked list, Doubly Linked List, Recursion, Trees, Graphs, Hash Tables, Sorting

Complete Python Developer

Online, India

Udemy - Zero To Mastery

2022

- Collaborated with a four-person team to develop a CNN model that utilised YOLO as a foundation to improve the accuracy of ambient lighting conditions in the Mobile net architecture.
- Automated and optimized the data handling process for traffic signs, working with Ubuntu 20.04 did shell scripting, and employed other Linux tools.
- Significantly boosted the model's accuracy by 60%, which was yielding an accuracy of 70-78% under Indian street light. The older models, had an accuracy of 10-15%.
- **Technical Skills:** Testing in Python, Debugging, Error Handling, Regular Expressions, Comprehensions, Functional Programming, Developer Environments (PyCharm, Jupyter Notebooks, VS Code, Sublime Text), File Processing: Image, CSV, PDFs, Text, Web Development with Python, Scripting with Python, Web Scraping with Python(Googlebot, BeautifulSoup, Requests).

Deep Learning Specialization by Andrew NG

India

Coursera - deeplearning.ai

2019 - 2020

- Neural Network and Deep Learning
- Improving Deep Neural Network: Hyperparameter tuning, Regularization, and Optimization
- Structuring Machine Learning Projects
 - Implemented a 2-class classification neural network with single hidden layer(using NumPy, Pandas and Matplotlib)
 - Implemented a Deep Neural Network for Image Classification: Application using "Cat vs nonCat" dataset using package s NumPy, Matplotlib, h5py, PIL and SciPy
- **Technical Skills:** Python, NumPy, Matplotlib, Pandas, Scikit-learn

Work Experience

Internshala

Online, India

Trainee

Jun 2020 - Jul 2020

- Six week online training consisted of Introduction to Python, Principles of OOP, connecting SQLite Database, Developing GUI with PyQt and Application of Python in various Disciplines modules. Created a Fantasy Cricket game in Python.
- **Technical Skills:** Python, NumPy, Matplotlib, Pandas, OOP.

Skills

Programming

Python (Pandas, NumPy, Tkinter, Scikit-learn, Selenium, BeautifulSoup etc.), Data Structures, C/C++, HTML/CSS, Tailwind, React, Javascript

DataBase

SQL, MongoDB

Miscellaneous

Deep Learning, MATLAB, Microsoft Office, Git, Artificial Intelligence, Machine Learning, Adobe Photoshop, \LaTeX (Overleaf/R Markdown)

Soft Skills

Problem-solving, Time Management, Teamwork, Documentation.

Achievements

- 2021 **296/340**, Graduate Record Examinations (GRE)
- 2019 **Participant in Regional Dance Team**, Le Feistus 2019
- 2018 **Top 10 teams**, Google Startup Weekend
- 2018 **Part of the ACM hospitality team**, ACM Conference
- 2017 **Placed fourth**, ACM Hackathon JUIT
- 2015 **Led and choreographed dance routine**, Year end annual function

India

India

India

India

India

India

Languages

English

Professional proficiency

Hindi

Native proficiency

Interests

Reading

I love reading. I read close to 40 books last year.

Art

I have always enjoyed drawing since I was a child. I won a couple of art contests in middle school.

Language

I am learning French these days. I am still a beginner