

Asmi Raj

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[GitHub](#) | [LinkedIn](#) | [LeetCode](#)

SKILLS SUMMARY

- Languages:** Python, C/C++, Java, SQL, R
- Databases & Tools:** MySQL Server, Oracle, MongoDB, Microsoft Excel, Tableau
- Frameworks & Technologies:** TensorFlow, Neural Networks, RNN
- Concepts & Domains:** Data Structures and Algorithms, Data Analysis, Object-Oriented Programming
- Soft Skills:** Leadership, Interpersonal Skills, Work Ethic, Teamwork

EDUCATION

Lovely Professional University

Bachelor of Technology - Computer Science and Engineering ; CGPA : 8.87

Jalandhar, Punjab, India
September 2022 – April 2026

Don Bosco Girls College

SSC - 95.8% / HSC - 97.2%

Nainital, Uttarakhand, India

PROJECTS

Poetic Text Generator (RNN)

Python AI Project (Tensorflow)

July 2024 – August 2024

Developed and Enhanced AI Text Generator:

- Designed and implemented a **bidirectional LSTM model** to generate poetic text inspired by Shakespeare's works.
- Enhanced **text coherence by 45%** using **temperature scaling** and **Top-K sampling**, refining creativity control.
- Optimized model efficiency, reducing **inference time to 6.5 seconds** for generating **300-character sequences**.

Mental Health Analysis Dashboard (Tableau)

Data Visualization Project

August 2024 – September 2024

- Developed an interactive dashboard to assess mental health risks based on lifestyle factors such as sleep, exercise, and job satisfaction.
- Designed custom filters and trend analysis, enabling personalized insights for early intervention.
- Enhanced risk detection accuracy by aiding in the identification of early warning signs through data-driven visualizations.

EXPERIENCE

Binary Blitz Hackathon @Coding Ninjas, LPU

Feb 2024

- Collaborated with a team during a 24-hour hackathon to design and develop an e-commerce website for local artisans.
- Implemented user-friendly features to improve customer accessibility and streamline the shopping experience.

Content Writer @Pradyut Foundation

Feb 2023 – August 2023

- Created compelling content for various events, campaigns, and proposals.
- Mentored and trained new members to enhance their writing and communication skills.

ACHIEVEMENTS & CERTIFICATIONS

Aryabhatta Research Institute of Observational Sciences: ARIES Nainital

Feb 2021

- First prize winner of the regional National Science Day competition (quiz, workshop, extempore)

Coding Ninjas Hackathon – Lovely Professional University

Feb 2024

- Cleared 2 rounds and advanced to the pre-final round, ranking in the top 50 out of 300+ teams.

One among Dean's top 10 % students at university

- For good academic performance and extra-curricular activities at University.

Deep Learning – IIT Ropar (NPTEL)

- Successfully completed the MOOC with an Elite rating.

LEADERSHIP

Head of Content Writing Department – Pradyut Foundation

Feb 2023 – August 2023

- Led the content writing department, guiding a team to create strategic content, while organizing events and campaigns.

Head of Women Education Operations – Women of LPU

May 2023 – October 23

- Led the Education Operations department of a women's empowerment club, organizing workshops, and leading recruitment.