

Ishan Jha

Rishikesh, Uttarakhand

📞 9456564070 ✉ ij.ishanjha@gmail.com  [linkedin.com/in/ishan-jha/](https://www.linkedin.com/in/ishan-jha/)  github.com/IshanJha-15

Projects

AI Model for Autocomplete and Spellchecker | N-gram Language Models, HMMs, Python July 2024

- Designed and implemented an AI-based Autocomplete and Spellchecker for efficient text prediction and correction.
- Utilized Hidden Markov Models (HMMs) for sequence probability estimation and context inference.
- Integrated N-gram language models for accurate word predictions based on prior context.
- Optimized model performance with probabilistic smoothing techniques like Laplace Smoothing for better handling of unseen words.
- Successfully enhanced user experience by automating image-based queries and responses.

Credit Card Customer Segmentation Using Advanced Clustering Techniques | TF-IDF, Cosine Sim Nov 2024

- Conceptualized and executed a comprehensive project on customer segmentation by analyzing credit card transaction behaviors.
- Employed advanced unsupervised learning algorithms, including K-Means Clustering and Agglomerative Hierarchical Clustering, for data-driven customer grouping.
- Utilized Python-based analytical frameworks such as Pandas, NumPy, and Scikit-learn to preprocess, standardize, and analyze high-dimensional datasets.
- Demonstrated proficiency in feature engineering, data normalization, and visualization of complex multi-cluster relationships using Matplotlib and Seaborn.

Starbucks Website Clone Development Using Front-End Web Technologies | HTML, CSS, JavaScript Feb 2023

- Engineered a pixel-perfect clone of the Starbucks website, demonstrating expertise in HTML, CSS, and JavaScript for interactive and responsive web design.
- Leveraged media queries and modern CSS techniques to ensure cross-platform compatibility and responsiveness across various devices and screen sizes.

Recreated intricate design elements such as typography, color schemes, and layout structures, adhering to industry-standard web development practices.

Extracurricular / Certifications

Ethical hacking – Nptel

Oct 2024

Nptel — nptel.ac.in/content/ishan_jha

DSA with C++ – Udemy

Feb 2024

Udemy — [udemy.com/certificate/ishan_jha](https://www.udemy.com/certificate/ishan_jha)

Programming certification in C++ – Coursera

March 2024

Coursera — [coursera.org/share/Ishan_jha](https://www.coursera.org/share/Ishan_jha)

Android development in java - LPU

Mastering Communication Skills for career success – LPU

LPU= [soft skill](#)

Nov 2022

Technical Skills

Languages: Python, C++, C, Java

Technologies/Frameworks: HTML and CSS, Git

Skills: Data Structures and Algorithms, Problem-Solving, Scripting in Python and JavaScript, Supervised Learning, Unsupervised Learning

Education

Lovely Professional University Punjab

2022 – 2026

Computer Science and Engineering

Jalandhar, Punjab

Modern School

2022

12th class — Percentage: 80%

Rishikesh, Uttarakhand

Modern School

2020

10th class — Percentage: 85%

Rishikesh, Uttarakhand