

SIMMI SINGH

FEMALE

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Hugging Face: <https://huggingface.co/SimmiSingh22299>

Skills: **Data Science | Machine Learning | Artificial Intelligence | Deep Learning| Data Analysis | Python | SQL |**

Professional Experience

Current Company: **Brane Enterprises**

Job profile: **ASL (Machine Learning)**

Jan 2024 – Present

- Developed a **Closed-Domain, Retriever-Based Question-Answering system** to streamline company policy inquiries, leveraging NLP techniques for accurate, context-sensitive responses.
- Created a Retrieval Augmented Generation (**RAG**) based chatbot to streamline platform documentation queries with the help of LlamaIndex.
- Developed and deployed APIs** using **Fast API**, including tokenization and **authentication** mechanisms with OAuth2.
- Created automated workflows for converting **PDF documents to Word format** using PyPDF2, significantly reducing manual processing time.
- Led a Proof of Concept (**POC**) project worth **\$500,000** to develop a comprehensive solution for a real estate client, resulting in a functional website to display their property listings. Managed a cross-functional team, ensuring timely delivery and client satisfaction.

Company: **iNeuron.ai**

Internship Profile: **Data Science Trainee**

May 2023 – Dec 2023

- Developed Python, SQL, and Machine Learning projects from scratch, focusing on regression and hypothesis testing.

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M. Tech	Indian Institute of Technology Guwahati, India	8.98/10	(2021-2023)
B. Tech	Dr. D. Y Patil Biotechnology & Bioinformatics Institute, Pune	9.74/10	(2017-2021)
Senior Secondary	RSVM Dhanbad (CBSE board)	90.2%	2015
Secondary	RSVM Dhanbad (CBSE board)	9.8/10	2013

Projects

- GitHub assignments and projects** - Python, SQL, and Machine Learning Projects.
 - End-to-end Machine Learning Project** - https://github.com/Simmisingh3/end_to_end_ML
 - Statistics hypothesis tests** - https://github.com/Simmisingh3/Hypothesis_book
 - SQL**- https://github.com/Simmisingh3/SQL_BOOK/blob/main/city_db_50questions.sql
 - Python Image Scraper Project** - https://github.com/Simmisingh3/img_scrap
- Analysis of *Mycobacterium tuberculosis* genome for identifying biomarkers fortherapeutics and diagnostics application** - Genomic analysis of MDR strains of Mycobacterium tuberculosis found in patients suffering from tuberculosis and cloning of the Tryptophan biosynthesis enzyme.

IIT Guwahati
(July 2022 – May 2023)
- Designing Molecular Markers in different varieties of *Stevia*** - Micro Satellite analysis to find Simple Strand Repeats and primer designing.

DPU, Pune
(Jan 2021 – July 2021)

Technical Skills

- Programming languages and/or Skills:** **Python** (OOPs, **Pandas**, **NumPy**), **Machine Learning** (Regression, SVM, K-NN, Decision Tree, Random Forest, etc.), **Deep Learning** (ANN, RNN, CNN), **Fast API**, Statistical Analysis, data cleaning Scikit Learn, PyTorch, AWS, Natural Language Processing (**NLP**), PyTorch, Scikit Learn, TensorFlow, **LLM**.
- Visualization and DBMS Tools** - Matplotlib, Seaborn, Power BI, SciPy, **MySQL**, MongoDB.
- Computer Proficiency:** MS Office (Word, Excel, PowerPoint).
- Operating system:** Windows, macOS, Linux.
- Git and GitHub, Jupyter Notebook, VS code, Kaggle, Google Colab.

Achievements

- Awarded as **Gold Medalist** (**B. Tech**) by **Sir. Rajnath Singh (Hon’ble Defence Minister of India)** in the **13th convocation (2022)** of **DPU, Pune**.
- GATE (Graduate Aptitude Test in Engineering) BT 2021:** Secured All India Rank 144.
- GATE (Graduate Aptitude Test in Engineering) XL 2021:** Secured All India Rank 339.