

Jeevanshi Sharma

LinkedIn, GitHub, Medium

Email : jeevansh@ualberta.ca

Mobile : +1-587-937-4711

EDUCATION

- **University of Alberta** Edmonton, AB, Canada
Master's in Computing Science - Multimedia Specialization (GPA 3.5/4) Sep'23 – Nov'24
- **Zakir Husain College of Engineering and Technology, AMU** Aligarh, UP, India
Bachelor of Technology in Electrical Engineering (GPA 8.57/10) Aug'18 – Sep'22

EXPERIENCE

- **Okaki Health Intelligence Inc** Remote / Calgary, AB, Canada
Machine Learning Engineering Intern Nov'23 - Nov'24
 - **NLP Pipeline Engineering and Deployment:** Engineered NLP pipelines for automating cognitive assessments like MoCA, optimizing AI-driven analytics, and integrating scalable architecture using Azure OpenAI.
 - **Advancing Audio-Speech NLP:** Scaled speech-to-text integration using Whisper, WhisperX, and Azure Speech models for precise transcription and diarization with unified dataclass output. Enhanced the transcription library's structure by implementing object-oriented principles, which improved code maintainability, modularity, and ease of scaling.
 - **Realtime-AI Assistant:** Built and optimized a real-time medical assistant for clinical assessments with vision capabilities using LiveKit's Pipeline.
- **Ersilia Open Source Initiative** Remote / Barcelona, Spain
Outreachy Intern Dec'22 - Mar'23
 - **Deep Learning and NLP Integration:** Developed deep learning models (e.g., Biomed-RoBERTa) for drug taxonomy via textual bioassay data embeddings.
 - **Software Development and Optimization:** Built the Auto-TabNet package, leveraging Optuna for hyperparameter tuning. Contributed to debugging and documentation.
- **Emplay Inc** Remote / Dublin, CA, USA
Data Science Intern Oct'21 - Apr'22
 - **API Development:** Developed and deployed the Topic-Suggestion API for generating relevant keyphrases and tags.
 - **Keyphrase Extraction:** Implemented supervised keyphrase extraction methods with precision scores of 0.37.
 - **NLP Content Moderation:** Built a content moderation pipeline to detect toxicity using pre-trained language models.
- **Dalhousie University** Remote / Halifax, NS, Canada
MITACS Globalink Research Intern Jun'21 - Sep'21
 - **Enhanced Natural Language Understanding:** Optimized pre-processing of datasets for compositional tasks, enabling efficient pre-training of language models such as ALBERT-xxlarge-v2, BERT-large-uncased, and RoBERTa-large.
 - **Advanced Semantic Evaluation:** Improved semantic evaluation techniques and accuracy by 15-20% for albert-xxlarge-v2 on benchmark datasets (ex: COPA, Winogender, aNLI, PDP), advancing zero-shot common-sense reasoning tasks.

PROJECTS

- **Budget AI:** Built REST APIs for a client application using MicroServices architecture. Developed an LSTM model for expense forecasting integrating AI educational content. Winner of CalHacks 8.0 *Microsoft Cloud Challenge: Building for Social Good* and ShellHacks *Code What Matters w/ JP Morgan Chase*.
- **Locust Location and Apprehension Module (LLAM):** Developed a web app to track locusts using satellite imagery and machine learning, predicting swarm attacks with 76% accuracy. Winner of *Microsoft Azure AI Hackathon '21*.
- **Dashboard for Indian Ministry of Statistics and PI:** Built a data visualization dashboard for the National Account Statistics, with an admin panel to upload, modify, and display statistical data as graphs. First Runner-Up at *Smart India Hackathon - 2019 edition*.

PUBLICATIONS

- **Machine Learning For Classification Of Antithetical Emotional States:** 2022 *IEEE Xplore*
J. Sharma, R. Maheshwari, Y. U. Khan
- **Evaluating Performance of Different Machine Learning Algorithms for the Acute EMG Hand Gesture Datasets:** 2022 *Journal of Electronics and Informatics* J. Sharma, R. Maheshwari, S. Khan, A. A. Khan
- **Evaluating CNN with Oscillatory Activation Function:** 2022 *arXiv Preprint* J. Sharma

SKILLS

- **Programming Languages:** Python, SQL
- **Programming Frameworks:** PyTorch, Flask, Huggingface, Langchain, Fast API
- **Tools:** Docker, Azure AI, AWS Bedrock, Linux Command Line, Git, Pandas, Numpy
- **Technologies:** Deep Learning, NLP, Vector Databases, Transformer Architectures, Prompt Engineering, RAG