

Jeevanshi Sharma

Experience

- Oct '21 - April '22 **Emplay Inc** *Dublin, CA*
Data-Science Intern | Advisor: CV Goudar (CTO)
- Contributed in building **Topic-Suggestion**, API end-to-end, capable of generating relevant tags/key-phrases with 0.37 precision. Developed benchmarking methods for keyphrases evaluation, for the tags generated by Topic-Suggestion API.
 - Implemented methods for extracting key-phrases using **supervised approach** with a precision score of 0.37.
 - Contributed in developing **Content Moderation** pipeline for filtering toxicity in the content, pre-trained language models (distil-roberta) to identify subtle toxicity in user's comments.
- Jun '21 - Sep '21 **Dalhousie University** *Halifax, Canada*
MITACS GLOBALINK RESEARCH INTERN | Advisor: Prof. Darren Abramson
- Worked with datasets for **Compositional Task** in Natural Language Understanding, pre-processed them for pre-training of State-Of-The-Art Language Model (albert-xxlarge-v2, bert-large-uncased, roberta-large, etc.).
 - Contributed in improving semantic evaluation of language and getting the results on Benchmark Datasets (COPA, Winogender, aNLI, PDP, etc.) for Common-Sense-Reasoning tasks using **Zero-Shot measurements**.
- March '20 - Present **Centre of Interdisciplinary Biomedical and Human Factors Engineering, AMU** *Aligarh, India*
Undergraduate Researcher | Advisor: Professor Yusuf Uzzaman Khan
- Worked on projects including detecting Human Emotions and Brain Network Analysis based on EEG signals using Deep Learning (refer [projects](#)) with a primary focus on studying Human Cognition using Machine Learning.
- July '19 - Aug '19 **Carrier Air Conditioning and Refrigeration Limited** *Gurugram, India*
Summer Intern | Department: Maintenance
- Surveyed Utility Power Zone and Assembly Lines at the Industry and collected data on power distribution.
 - Built a Dashboard for Data Visualization of Power Distribution in different channels in Utility Power Zone.

Publications

- 2022 **J Sharma, R Maheshwari, S Khan and A A Khan**, Evaluating Performance of Different Machine Learning Algorithms for the Acute EMG Hand Gesture Datasets, *In Proceedings: IETRTA 2022*

Education

- Aug '18 - Sep '22 **Zakir Husain College of Engineering and Technology, Aligarh Muslim University** *Aligarh, India*
Bachelor of Technology in Electrical Engineering
Thesis: Deep Learning Based Human Emotion Classification using EEG signals. *CPI: 8.57/10*

Awards & Achievements

- 2021 Won **Microsoft Cloud Challenge: Building for Social Good** Award at Cal Hacks 8.0 organised at UC Berkeley.
- 2021 Won Code What Matters w/**JP Morgan Chase** at Florida's Largest Hackathon organised by *Florida International University*.
- 2021 Won *Popular Choice Award* at **Microsoft's Azure AI** Hackathon.
- 2021 Winner **RoboHacks 2021** Hackathon organized by *Major League Hacking*.
- 2021 Winner **SharkHacks 3** Hackathon organized by *Major League Hacking*.
- 2020 Selected for the **MITACS Globalink Research Internship** to participate in a 12-week research at the *Dalhousie University, Halifax, Canada*.
- 2019 First Runner Up at **Smart India Hackathon 2019** (Ministry of Statistics and PI) organised by MHRD, India.

Projects

- Aug '21 - Oct '21 **Budget AI** | *Balanced Financial Ecosystem*
- Built REST APIs for the client application following MicroServices architecture
 - Developed Expense forecaster, an LSTM model that uses the user's spending history to forecast future expenses and components for budget diary visualization.
 - Currently working on building an exclusive budget score and exploring personalised content delivery AI Systems.
- Oct '18 - Jan '19 **Locust Location and Apprehension Module (LLAM)**
- LLAM is a web application that tracks the real-time locust's location and visualizes wind patterns on earth and predicts the probability of locust swarm attack on any given location through satellite imagery using machine learning models.
 - Built Machine Learning Pipelines for predicting the probability of Locust Swarm Attack, the model was able to reach to an accuracy of 0.76.
- March '19 **Dashboard for Ministry of Statistics and PI**
- Data Visualisation for the National Account Statistics, built under Smart India Hackathon - 2019 edition.
 - Built the dashboard wherein, all the statistical data can be uploaded(by admin), modified, and displayed as graphs.
- 2019 - 2021 **Other Projects:**
- **Fake News Detector** Built using NLP Techniques and trained on the Fake News Kaggle Dataset. Various ML Classification Algorithms and Neural Networks were incorporated to achieve an accuracy of 93.12% on Passive-Aggressive Classifier. A Flask-based web-app was built to detect fake news in real-time through the URL of the article.
 - **Arxiv Paper Recommender** Obtained embeddings for abstracts of arxiv research paper (dataset from kaggle) by finetuning Sentence-BERT and calculated TF-IDF Cosine Similarity between abstract vectors to provide paper recommendations.

Relevant Coursework

- Bachelor's** Signals and Systems, Digital Signal Processing, Mathematics-I (Linear Algebra & Advanced Calculus), Mathematics-II (Partial Differentiation & Multivariate Calculus), Higher Mathematics (Numerical Analysis), Machine Learning, Selected Topics in Engineering, Computer Programming, Bio-physics, Engineering Graphics Lab, Applied Physics, Control Systems
- Online** NLP Specialization by Coursera, Deep Learning for Coders by fast.ai

Skills

- Languages** Python, SQL
- Frameworks** Pytorch, Tensorflow, Keras, Flask
- Tools** Azure AI Services, MongoDB, Linux Command Line, Git, GitHub, \LaTeX , Jupyter Notebook, Docker
- Soft Skills** Leadership, Storytelling, Theatre, Public Speaking

Volunteer Experience

- Sep '20 - Present **DevScript** | *Community Mentor*
- Mentored over 1000+ students in the Machine Learning Domain.
- April '19 - Present **AMU-OSS** | *Technical Lead*
- Leading the Open-Source Society of University, providing guidance and support and networking opportunities to help students advance their career.
- 2020 - 2021 **Open-Source Mentor** | *DWOC, LetsUpgrade*
- Project Mentor at All India Open-Source Events.