Sargam Vyas

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Experience

Idiap Research Institute   **Switzerland**
AI RESEARCH INTERN AND MASTER THESIS   FEB 2021-JUNE 2024

- Combined handcrafted and neural embeddings to improve speech emotion recognition in both language-matched and mismatched conditions compared to baseline models.
- Built and validated convolution neural network and classical models for **face-swap deepfake detection**, achieving up to 99.5% accuracy while reducing false match and non-match rates.

Lonza   **Switzerland**
GLOBAL MASTER DATA INTERN   JUNE 2019-NOV 2019

- Automated weekly, monthly, and annual KPI reports using Excel Macros, reducing manual effort by over 95%, from 5-6 hours to 5 minutes.

Capgemini   **India**
SOFTWARE DEVELOPER   JAN. 2015-MAY 2018

- Spearheaded the migration of E-tool application from CGI to Spring, enhancing scalability by 4x and doubling efficiency, while leading system design, backend development, and database integration.
- Designed backend functionality for the expenditure approval process in the Events and Conferences application and resolved production issues to ensure defect-free delivery.

Education

Santa Clara University, Leavey School of Business, CA   December 2025
Master of Science, Business Analytics
Data Analytics using Panda, Data driven Marketing, Generative AI

FernUni, Switzerland   July 2022
Master of Science, Artificial Intelligence
Machine learning, Speech processing, **Computer vision**, Natural language processing

Jayoti Vidpyapeeth Womens Univ, India   July 2014
B.Tech, Electronics and Communication Engineering

Peer-Reviewed Publications

- Vlasenko, B., Vyas, S., Doss, MM. **Comparing data-driven and handcrafted features for dimensional emotion recognition.** *International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023.*

Technical Skills

Programming: Python, Shell, Java, SQL, R, C, C++, HTML, CSS, Javascript
Frameworks: PyTorch, Spring MVC, LaTex, PyQt5, Linux, Tensorflow, Keras
Tools and OS: Linux, Pandas, scikit-learn, matplotlib, git

Volunteer

Volunteer teacher with Project Read at Redwood City Library since 2023, actively contributing to the program by teaching English to enhance literacy skills in under served communities.