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EDUCATION

MS CIT Specialization in Natural Language Processing | Purdue University, West Lafayette

Thesis: Identifying differences in the grooming Strategies & Stages using state-of-the-art methods.

Aug 2021 - Aug 2023 GPA: 3.94/4.0

B.TECH (Honours) | Nirma Institute of Technology, Ahmedabad

Information Technology, University topper in last year with GPA: 9.3/10

Jun 2012 - May 2016 CGPA: 8.2/10

EXPERIENCE

Research Assistant | Purdue University, West Lafayette

Multilingual Chat Analysis (sensitive data): Built a classifier using state-of-the-art methods to identify the differences in grooming stages and strategies of online sexual solicitors targeting minors, and helping Law Enforcement Officers in the training process who engage in online sex stings. Actively being used by Law Enforcement Officers.

Jan 2022 - Present Indiana, US

Software Engineer | Graduate Assistant | Purdue University, West Lafayette

Build PL/SQL procedures and new PHP webpages for performing various processes related to the Graduate School Database running in Oracle.

Aug 2021 - Present Indiana, US

Machine Learning Software Engineer & Founder | Miemaw Global

Built housing price predictive algorithm for Smart City Surat Municipal Corporation. (Active use) Created Reformer based chatbot and finetuned it based on clients requirement. (Active use) Built Waste Segregation Application for SMC funded by Goldman Sachs. (Active soon) Served Al applications to more than 150 happy clients throughout India.

Jun 2016 - Aug 2021 Surat, India

Research Summer Intern | Fordham University, Bronx

Built CNN to identify cancerous cells in MRI with 95% accuracy.

May 2015 - Jul 2015 New York, US

TECHNICAL SKILLS

Area of Interest: Natural Language Processing, Full-stack Design & Development, Data Analytics Languages and Frameworks: Python, Java, PHP, JavaScript, SQL, MySQL, SQLite, C/C++, HTML/CSS, Node.js, PLSQL, Spring, Angular, React, Jenkins, Spark Tools and Libraries: Kubernetes, Docker, Oracle SQL Developer, Heroku, Django, Git, Postgres, spacy, scikit-learn, NumPy, pandas, TensorFlow, NLTK-lib, Pytorch, Trax Certifications:

•	Natural Language Processing with Attention Models by DeepLearing.Al	Mar 2022
•	Natural Language Processing with Sequence Models by DeepLearing.Al	Mar 2022
•	Natural Language Processing with Probabilistic Models by DeepLearing.Al	Mar 2022
•	Natural Language Processing with Classification and Vector Spaces by DeepLearing.Al	Jan 2022
•	Finetune BERT for Text Classification by Coursera	Dec 2022
•	Natural Language Processing by HSE University @Coursera	Oct 2020

Oct 2020 Machine Learning by DeepLearing.Al Aug 2020 Front-End Web UI Frameworks and Tools: Bootstrap 4 by Coursera Mar 2015 Image and Video Processing: From Mars to Hollywood with a Stop at the Hospital by Coursera **PROJECTS & RESEARCH** Al conversational chatbot creation using a Reformer Model (Active Research Work)-Present Building a model that can generate dialogues on initial grooming stages between offendervictim. Anonymizing Legal Documents using Named Entity Recognition (NER) - Built LSTM model Feb 2021 to identify sensitive data and anonymize it using general tags like PER, ORG, etc. tags with 92% accuracy. Question Answering using T5 Model – Built a system that can answers questions Dec 2021 regarding our Machine Learning University Coursework. Oct 2021 Transformer Summarizer - Implemented the transformer decoder from scratch to summarize articles and deployed Machine Learning application on Cloud Platform. English-to-German neural machine translator (NMT) model using Long Short-Term Sep 2021 Memory (LSTM) networks with attention - Built the NMT model from scratch using Trax. Generated translations using greedy and Minimum Bayes Risk (MBR) decoding.

CONFERENCE & PUBLICATION

Generating Friendship forming grooming stage dialogues using transformer based

In press architecture. ACM Journal of Artificial Intelligence Research

Assessing differences in grooming stages and strategies among victim, LEO, and decoy with

In press offender - IEEE International Conference on Systems, Man and Cybernetics (SMC)

AWARDS

Global Summit 2021 Womennovator Face Asia Awards (For being a founder of Top Al

Global Sulfillit 2021 Wolfletinovator Lace Asia Awards (Lor being a Tourider of Top Ar	Dec 2021
company in Asia)	
Womennovator Face 2020 in Startup Category	Feb 2020
Goldman Sachs 10KW Business Growth Fellowship	Nov 2019
Young Entrepreneur of the Year Award	Oct 2019
Pride of Gujarat by the Prime Minister Office of India.	Feb 2017
Ranked first in NU-Hackathon.	Feb 2014
Certificate of Honour for Paper presentation and publication in an international conference at	Oct 2014
Jawaharlal Nehru University (JNU), New Delhi.	

HOBBIES

Painting – National level winner in painting

Playing Guitar - Can play it at a beginner level

ORGANIZATIONS

Purdue Association of Information Technology Professionals – Purdue University.

Computer Society of India – Nirma Institute of Technology

Goldman Sachs 10000 Women Alumni – Goldman Sachs.

Surat Smart City iLab – Surat Municipal Corporation.

Applied Knowledge Representation and Natural Language Understanding Lab – Purdue University.

Dec 2021