KIRTI BHAGAT

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EDUCATION

Vellore Institute of Technology   *2017 - 2021*
B.Tech Electronics and Computer Science   CGPA: 9.23/10
Department Rank 3

Rajhans Vidyalaya, Mumbai   *2017*
Intermediate, CBSE - Science Stream   96.2%
School Rank 1

RESEARCH EXPERIENCE

Indian Institute of Science, Bengaluru   Feb 2024 - Present
Research Associate

· Currently part of the FLAIR Lab at IISc led by Prof. Danish Pruthi.
· Studied geographical bias in Language Models and its impact on real-world applications.
· Currently focused on evaluating cultural misrepresentations in long-form content generated by Large Language Models.

Vellore Institute of Technology   Jan 2019 - Apr 2020
Undergraduate Researcher

· Worked on the problem of data sparsity in recommendation systems with Prof. Syed Ibrahim.
· Developed a solution to identify unfavourable items using association rule mining and imputing them with lower values to significantly improve accuracy on the MovieLens 100K dataset.

National Institute of Technology, Surathkal   Jun 2019 - Jul 2019
Summer Research Intern

· Interned in the Robotics Lab at NIT Surathkal under the guidance of Prof. K.R. Guruprasad.
· Developed and tested a robot coverage path planning algorithm, namely X-STC, which is an improved version of the spanning tree algorithm, on the TurtleBot.

PUBLICATIONS

TALES: A Taxonomy and Analysis of Cultural Representations in LLM-generated Stories
Kirti Bhagat*, Shaily Bhatt*, Athul Velagapudi, Aditya Vashistha, Shachi Dave, Danish Pruthi
Under Submission https://arxiv.org/abs/2511.21322

Richer Output for Richer Countries: Uncovering Geographical Disparities in Generated Stories and Travel Recommendations
Kirti Bhagat, Kinshuk Vasisht, Danish Pruthi
Findings of NAACL 2025 https://aclanthology.org/2025.findings-naacl.262/

Where Do Images Come From? Analyzing Captions To Geographically Profile Datasets
Abhipsa Basu, Yugam Behl, Kirti Bhagat, Preethi Seshadri, R Venkatesh Babu, Danish Pruthi

INDUSTRY EXPERIENCE

Amazon Development Centre (India)   Dec 2021 - Jan 2024
Software Development Engineer

· As part of Amazon's Fire OS Framework team, owned the Remote Configuration Management, Liquid Detection, and Toddler Mode features.
· Contributed bug fixes to Android (AOSP) related to storage, user interface, physical keyboards and user profiles.

Bajaj Finserv Health Limited   Jan 2021 - Dec 2021
Associate Data Scientist

· Managed data from heterogeneous sources to build ETL (Extract, Transform and Load) pipelines using Azure Data Factory, Databricks, Python and MySQL.
· Liaised between business and development teams to provide insightful reporting and KPIs using PowerBI.

PROJECTS

Data Mining - Movie Recommendation

· Applied and tested various data mining algorithms like the Apriori and Random walk with restart to build a user specific movie recommendation system.

Image captioning using deep learning

· Trained images using RNNs on Flickr 8K dataset to make a caption generator for new images.

CourseDesk: A student registration website

· Created an online course registration website using nodejs, css and html which students could use to register/deregister various courses offered by professors in an organization.
https://github.com/Kirtibg/Course-Registration-Website

TEACHING EXPERIENCE

Vellore Institute of Technology   Aug 2019 - Dec 2019
Teaching Assistant ECE1002

· TA for ECE1002, Semiconductor Devices and Circuits taught by Prof. Suganthi K
· Assisted in preparing, administering, and grading assignments and laboratory work.

RELEVANT COURSEWORK

Data Structures & Algorithms	Data Mining
Natural Language Processing	Machine Learning Algorithms
Computer Vision	Discrete Mathematical & Graph Theory
Statistics for Engineers	Database Management Systems

SKILLS

Computer Languages	Python, Java, SQL, MATLAB
Tools & Technologies	MySQL, PyTorch, MongoDB, Azure Data Factory, Linux, Android

OTHER EXPERIENCES

Volunteer as a mathematics teacher at U&I Trust, a non-profit charity. (2023 - Present)
Mentor and Moderator at GirlScript, a non-profit technical community. (2020 - 2021)
President of the Robotics Club at Vellore Institute of Technology Chennai. (2019 - 2021)