JALEND BANTUPALLI

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RESEARCH INTERESTS

NLP & AI: Natural Language Processing, Human Computer Interaction, Machine Learning

EDUCATION

Indian Institute of Technology, Kharagpur 2018 - 2022
B.Tech, Major in Electronics and Electrical Communication Engineering **9.45/10**
Minor in Computer Science and Engineering **9.56/10**
FIITJEE Junior College 2018
Andhra Pradesh Board of Intermediate Education **97.80%**
Timpany School 2016
Indian Council for Secondary Education (ICSE) — **ICSE State Topper** **97.8 %**

CONFERENCE PUBLICATIONS

Social Informatics 2022

- Vahini Medidoddi, **Jalend Bantupalli**, Souvic Chakraborty, Animesh Mukherjee. "Decoding Demographic un-fairness from Indian Names" - paper accepted to be published in the 13th International Conference on Social Informatics, 2022.

RESEARCH EXPERIENCE

Sarcasm Detection — Bachelor's Thesis Project II February'22 - June'22
Prof. Animesh Mukherjee ***Technologies and Tools:*** *Python, Deepface*

- Explored the conversations in "The Big Bang Theory", an American television sitcom to detect sarcasm in speech.
- **Classified the speech as sarcasm** based on contextual parameters like speakers, the emotion of the characters present and presence of a laughter track during the speech drawn from the sitcom dataset.
- Developed a model using transfer learning to obtain an F1-Score close to 75.00 on classified twitter data.

Name-based Classification — Bachelor's Thesis Project I August'21 - February'22
Prof. Animesh Mukherjee ***Technologies and Tools:*** *Python, Twitter API Tools*

- **Explored the role of gender and caste** on registrations and marks of CBSE Board examination from extracted CBSE data
- Predicted gender on CBSE data using a fine tuned **Char-BERT Model** with word embeddings with an **accuracy of 95%**
- Extracted the electoral list dataset of India in order to study the demographic changes over time and caste dynamics

Rumour and Stance Classification on PHEME-RNR Dataset September'21 - November'21
Prof. Saptarshi Ghosh — Information Retrieval ***Technologies and Tools:*** *Python, SNAP, NLTK*

- **Improved the accuracy of prediction by 2 percent** by incorporating stance classification in Tree LSTM-based rumour detection from "Going Beyond Content Richness: Verified Information Aware Summarization of Crisis-Related Microblogs".
- Preprocessed PHEME dataset for "Cascade-LSTM: A Tree-Structured Neural Classifier for Detecting Misinformation Cascades" by matching the relevant features to detect misinformation in the PHEME dataset.

Combatting Online Hostile Posts in Regional Languages February'21 – April'21
Prof. Bivas Mitra — Complex Networks

- Explored the role of online religious organisations in twitter and focused on a variety of hostile posts in Hindi Devanagari Script.
- Developed a model for **Hostile speech detection** and **created a new dataset** for hostility detection.
- **Formulated a metric** called hate score which indicates how hostile a certain post is.

INDUSTRIAL EXPERIENCE

Google India Pvt Ltd., Bengaluru, India July'22 - Present
Software Engineer ***Technologies used:*** *C++, Python*

- C++ developer working on **improving switch reliability** as part of the Networking team.
- Researched and designed black hole detection in networks and implemented it in our switches.
- Performed network maintenance and system upgrades including vulnerability fixes and security configurations

Microsoft India (R&D) Pvt Ltd., Hyderabad, India May'21 - July'21
Software Engineer Intern ***Technologies used:*** *Microsoft Dynamics CRM, JavaScript*
Project: **Config Entity Framework — Microsoft Dynamics CRM**

- Developed a new entity named **Config** in **Microsoft Dynamics CRM** which helps in storing all configurations of an entity as records and not as a part of the metadata. This functionality helps in avoiding unmanaged customizations post production.
- Designed the entity to be a centralized system using **JavaScript** and **REST Web Service API** calls to avoid the need to change the same configuration across different web resources
- Removed the dependency on release for onboarding pilot features and **reduced the waiting time** to a single flip in the entity
- **Documented Guidelines** on the usage of this entity & Responsible for **service availability** and **incident management** as a DRI

COURSES (GRADE)

Algorithms-I (10) — Programming and Data Structures (10) — Principles of Programming Languages (10) — Probability and Stochastic Processes (9) — Digital Electronics Circuits (9) — Foundations of Entrepreneurship (10) — Deep Learning (10) — Machine Learning (10) — Big Data Processing (9) — Natural Language Processing (9) — Image Processing (10) — Matrix Algebra (9) — Information Retrieval (10) — Complex Networks (10) — Data Structure & Object Representation (9) — Computer Architecture and Operating System (10)

SKILLS

- **Programming Languages:** C, C++, Python, JavaScript, Octave, Java
- **Utilities & Libraries :** Android Development, Git, Microsoft Dynamics CRM, REST API, SQL
- **Environments & Libraries :** ROS, MATLAB, OpenCV, Selenium, Pytesseract, PyTorch, TensorFlow

POSITIONS OF RESPONSIBILITY

- **Mentor to 3 students** of the junior batch, act as the first step for all their academic and personal doubts.
- Selected as a mentor by peer review , a team of 160 members out of 600 applicants

EXTRA-CURRICULAR ACTIVITIES

- Part of NSO Volleyball and Participated in InterHall Volleyball Competition in General Championship.
- Participated in the Model United Nations as a representative of Bahrain