

# JASH MEHTA

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## EDUCATION

### Georgia Institute of Technology

Aug 2022 - Present

M.S. in Computer Science, Specialization: Machine Learning

Graduate Teaching Assistant (GTA) for CS 6220 Big Data Systems and Analytics for Fall 22

### University of Mumbai

Aug 2018 - May 2022

Bachelor of Engineering in Computer Engineering

GPA: **9.67/10**

## EXPERIENCE

### Indian Institute of Technology (IIT), Gandhinagar, Research Intern

May 2021 - Jan 2022

- Won **Best Presentation Award** for work done at LINGO lab on probing and robustness evaluation of automated review generators to adversarial perturbations.
- Formulated desiderata for an ideal generator system and provided a public leaderboard along with a framework for unified & comprehensive measurement of model performance.

### Unicode Research, Research student & TA

Aug 2020 - Jan 2022

- **Projects:** Estimating the causal effect of mentorship on student career outcomes; and small-world simulation to model opinion polarization of online communities using Pyro.
- **TA: Google Research** funded 9-week Machine Learning Course UMLSC 2021 with 100+ students.
- Participated in Shalizi-Stats reading group for Bayesian Statistics and Cosma Shalizi's book.

### Dwarkadas J. Sanghvi College of Engineering, Undergraduate Research Assistant

Jan 2021 - June 2021

- Implemented 4 efficient aggregation strategies for federated learning on non-iid medical data, using ResNet & U-Net
- Trained UMLFiT & AWD-LSTM models for detection of Spear Phishing on a corpus of ~73k emails.
- Published 2 chapters with *Dr. Ramchandra Mangrulkar* in Chapman and Hall/CRC in the domain of FL & NLP.

### People Org., Machine Learning Intern

July 2020 - Dec 2020

- Devised a dynamic pricing strategy for a restaurant which helped in improving the sales by 28%.
- Developed recommender system pipeline using PyTorch and rendered visualizations with MERN stack.

### Margosatree Technologies, Software Engineer Intern

Jan 2020 - June 2020

- Used Spark-Scala to gain useful insights from large-scale real-time data generated by machines.
- Worked on a diverse array of client and internal projects like report generation software using Selenium & Pandas.

## PROJECTS

### Hate Speech Detection using Federated Learning

Guide: [Zeerak Talat](#)

- Standardized 9 hate-speech datasets and experimented with AWD-LSTM, BERT, FNet, DistilBERT, RoBERTa, etc. in federated & centralized settings. (Under review at **EMNLP 2022**)

### A Federated Approach to Predict Emojis in Hindi Tweets

Guide: [Zeerak Talat](#)

- Conducted cost sensitive learning and SMOTE for imbalanced emoji data using FedProx for training
- Curated a dataset of ~1M tweets in low resource Hindi language & conducted emoji prediction using bi-LSTM, mBERT, IndicBERT, Hindi-Electra, XLM-R, etc. (Under review at **ACL ARR**)

### Automotive Component Failure Prediction

Guide: [Dr. Kriti Srivastava](#)

- Collaborated with a Big4 Consultancy firm to predict tyre life in vehicles using models such as MLP, XGB, etc.
- Designed a case study for the firm regarding tyre life uncertainty after extensive analysis of presented data.

## PUBLICATIONS

- [1] **Jash Mehta\***, Deep Gandhi\*, Naitik Rathod, and Sudhir Bagul, "Indicfed: A federated approach for sentiment analysis in indic languages," in *Proceedings of 18th ICON 2021*, ACL Anthology, [📄](#).
- [2] **Jash Mehta**, Deep Gandhi, Govind Thakur, and Pratik Kanani, "Music genre classification using transfer learning on log-based mel spectrogram," in *2021 5th ICCMC*, pp. 1101–1107, IEEE, 2021 [📄](#).
- [3] Deep Gandhi\*, **Jash Mehta\***, and Pranit Bari, "Ablation analysis of seq2seq models and vanilla transformers for spanish to english translation," in *Proceedings of the 3rd ICADCML*, Springer Nature, [📄](#).
- [4] Deep Gandhi, **Jash Mehta**, Nemil Shah, and Ramchandra Mangrulkar, "Federated learning for brain tumor segmentation on the cloud," pp. 261–278, Chapman and Hall/CRC, 2021 [📄](#).

## SKILLS

Languages:	Python, R, Javascript, C, C++
Libraries/Frameworks:	PyTorch, Huggingface, Pyro, Node.js, React.js, GraphQL, Pandas, scikit-learn, NumPy
Databases:	SQL, MongoDB, Redis, PostgreSQL
Tools:	Git, Jupyter, Docker, Bash, Heroku, AWS, Azure, L <sup>A</sup> T <sub>E</sub> X