

# SHRUTI GUPTA

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## EMPLOYMENT

**AI Engineer, Tarento** (Bengaluru, India)

Feb 2022 – Present

**Product: OCR based project**

- Fine-tuned OCR models to get textual data of templates.
- Developed pipeline for post processing of raw data to convert into structured data.
- Deployed on the server using Docker and Azure.

**Software Engineer, HFN IT/Acris** (Bengaluru, India)

Sep 2019 – Nov 2021

**Product: Conversational Bot using minimal training data.**

- Used by enterprises to query their own data using simple text instead of complicated SQL queries.
- Designed and implemented the database schema using Flask SQLAlchemy.
- Developed RESTful APIs and web interface using HTML5, JS.
- Trained and tested NLP model(encoder-decoder) using Keras.

## MASTER'S PROJECT

**Pitch-synchronous Single frequency Filtering for Speech Emotion Recognition**

Jul 2018 - Jun 2019

- Proposed Pitch-synchronous Single Frequency Filtering Spectrogram as an alternative representation of speech for Speech Emotion Recognition (SER)
- Attempted to solve the problem of SER using **deep learning (CNN)**.
- Obtained a significant improvement of **+7.35% and +4.3%** for weighted and unweighted accuracy values respectively over the state-of-the-art results.

Published in Multimedia Tools and Applications (SCI Indexed Journal)

<https://arxiv.org/abs/1908.03054>

**Synthesis of Emotional Speech by Prosody Modification of Vowel Segments of Neutral Speech**

Aug 2018 - Jan 2019

- Synthesized emotional speech from neutral speech using prosodic features
- Modified only the Vowel Like Region (VLR) of a sentence
- Achieved better results by modifying prosody features of VLR than at the syllable level, further reducing the time complexity.

Journal: Recent Patents on Computer Science

[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3349023](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3349023)

## BACHELOR'S PROJECTS

**Hotel Management System** (Web Designing)

- Designed a website for the ease of customers to book the hotels online.
- Developed the website for checking the availability of rooms in various hotels, booking of room.

**Internet Protocol Security** (System and network programming)

- Secure way to send secure data packets across the network with an interactive graphical interface.

## TECHNICAL SKILLS AND EXPERIENCE

- **Languages:** Python (2.5years)
- **Software and Tools:** Git (2.5 years)
- **Libraries:** Keras, NLTK, Pandas, Numpy, Flask (2.5 years), Flask SQLAlchemy (2.5 years), Gensim
- Data Structure and Algorithms, Natural Language Processing (1.5 years)

EDUCATIONAL QUALIFICATIONS

Year	Degree	Institute	Percentage/CGPA
2019	MTech	NTT Patna	8.61
2016	B.Tech. in Computer Science	JIIT Noida	6.6
2011	XII (CBSE)	St. John School, Kota	73.4
2009	X(CBSE)	K.V. Sarni	84.2

Location: Bengaluru

Shruti Gupta