Shivani Saini

Senior Speech Engineer   Deepmindz Innovations

Looking for challenging opportunities to apply skills in data science and machine learning.

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WORK EXPERIENCE

Senior Speech Engineer
Deepmindz Innovation

10/2021 - Present

Speech Application Engineer
Govivace Inc.

12/2019 - 08/2021   *Noida*

Junior Research Fellow
NIT Patna

07/2017 - 07/2018

I served as a Junior Research Fellow for Cyber Security R&D Division, Ministry of Electronics and Information Technology sponsored project titled "Development of Algorithms for Speech-based Bilingual Keyword Search to Detect Fraud/Spam calls" in the department of Electronics and communication Engineering at NIT Patna.

PAPERS ON INTERNATIONAL CONFERENCES

Saini Shivani, Sunil Saumya, and Jyoti Prakash Singh. "Sequential Purchase Recommendation System for E-Commerce Sites." IFIP International Conference on Computer Information Systems and Industrial Management. Springer, Cham, 2017.
URL: https://link.springer.com/chapter/10.1007/978-3-319-59105-6_31

EDUCATION

MTech (CSE)
NIT Patna

2015 - 2017   *7.23 (CGPA)*

BTech (CSE)
Uttar Pradesh Technical University

2010 - 2014   *68.12*

Intermediate
CBSE Board

2010   *70.2%*

High School
CBSE Board

2008   *74.8*

SKILLS

Python   R   MongoDB   NLP   Chat bots

Sequence Pattern Mining   Machine Learning

PROJECTS

Voice Bots (bots are deployed on telephony platform)
Govivace

RASA NLU , Articulate, Flask API

Tasks/Achievements

- FAQ and call forwarding bot: **This bot answer some FAQs and transfer the call to the required department if needed**
- Food ordering Bot : **Takes Order, Address and Credit card information and have Voice biometric for security.**

Speaker Extraction
Govivace

Python

Tasks/Achievements

- To extract the speaker from an overlapping conversation

Development of Algorithms for Speech-based Bilingual Keyword Search to Detect Fraud/Spam calls
(2017 – 2018)

Junior Research Fellow at NIT Patna
Programming Language used : Python, MATLAB, KALDI (Toolkit)

Tasks

- Designing a fraud call detection system using SGMM model (using keyword spotting technique).
- Determine whether the call is a robot call or not.
- System provides 80% accuracy
- Collect and pre-process the bilingual database.

Sequential Purchase Recommendation System for ECommerce Sites
(2016 – 2017)

Programming Language used : Python, R

Tasks

- Find the sequences followed by customers (with time gap) while purchasing products to improve the efficiency of a recommender system.
- Sequence pattern mining is used to find out the order of purchasing products. (90% accuracy)
- The recommendation system using above technique got 0.0245 F-score

INTERESTS

Data Science   Machine Learning   Painting