

SHASHANK SRIVASTAVA

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Data Scientist with 2+ years of experience in the field of NLP, ML Architectures, Chatbots, Emailbots, Multilingual language processing, Dialog Management, Clustering, Model deployments, with a research-oriented approach towards problem-solving. Understanding business use cases and building cutting-edge AI solutions on that is one of my fortes.

WORK EXPERIENCE

Oriserve

Noida, UP

Data Scientist

Oct 2020 – Present

- POC, development, deployment and delivery of Email Bot for Vodafone, internally it consists of 5 different NLP modules that work together to find the context of mail, it can understand and respond to multiple queries in a single mail.
- Research and development of Dialog Management system(DMS), A system that can be trained to learn context in a sequential conversation and predict actions based on that.
- Development of Role Based NER system for Tata Sky that can predict the role of a particular entity in a given utterance.
- Development of a centralized clustering system for user chats of multiple clients for better analysis and understanding of unhandled queries that are coming to our chatbots and can be handled.
- Development of Subtheme Model, that can predict subthemes of a global intent in an utterance.
- Research and development of same plane multilingual embeddings so that we can develop and train multilingual chatbots with a single embedding file. We have supported around 20+(regional + foreign) languages.
- POC's, Requirement gathering, development, deployments and handling from the AI side for chatbots of multiple clients.

Praktice.ai

Bangalore, KA

Python Development/ML Intern

Dec 2019 – May 2020

- Development of AI based medical search to navigate related doctors based on symptoms search with triaging, specialist search, direct name search with multiple language support.
- Development of redis based caching architecture for low latency of medical search and multiple language translation.
- Development of a generic crawler to scrape doctor's information, health center locations information, health packages information
- Development of sorting techniques for AI based medical chatbot to sort best doctors based on user requirements.

EDUCATION

Institute of Engineering, Jiwaji University

Gwalior, MP

Bachelor of Engineering Computer Science

Aug 2016 - Sep 2020

SIDE PROJECTS

Malaria Detection using Faster-RCNN and Transfer Learning

- An object detection model to detect given blood sample image whether the patient has malaria or not. I have used Faster R-CNN using Tensorflow object Detection API and Feature Extraction using Transfer Learning for prediction

Dashwork - A react based dashboard that can be used to train and develop your chatbot

- A react-flask based Dashboard in which we can create intents, add utterances and train chatbots using multiple architectures like LSTM, Transformers, BERT.

TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES** - C/C++, Python, JavaScript
- **ADVANCED LIBRARIES/ FRAMEWORKS** - Flask, Pytorch, Keras, Tensorflow, Pandas, Sklearn, OpenCV, Scrapy, Selenium, Celery, Asyncio, Boto3, Matplotlib, React.js, HuggingFace, Transformers, Pymongo, SQLAlchemy, Fasttext, NLTK
- **MISCELLANEOUS** - Git, Linux, AWS, MySQL, MongoDB, Redis, Productionizing Models, System Design, BERT

ADDITIONAL

Certification & Trainings - Machine Learning & AI (Applied AI), GANs Specialization (Coursera)

Github - <https://github.com/skshashankkumar41/>

Medium - <https://medium.com/@skshashankkumar41>