

# Bhargav Kadupukutla

Visakhapatnam, Andhra Pradesh

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## EXPERIENCE

### Incture Technologies

Associate Software Engineer

Bangalore, India

September 2020 -

- Built web applications using Java/J2EE technologies using SAP Cloud platform for client server environments.
  - Developed Spring REST APIs using hibernate and SAP HANA database.
  - Involved in the development of SQL, PL/SQL packages, stored procedures.
  - Involved in Software Development Life Cycle components utilizing a test-driven development approach in the Scaled Agile Framework (SAfe) methodology.
- Tools used: Java, Spring REST, Hibernate, Spring Boot, SQL, SAP CPI, XSJS.

## PROJECTS

### Calorie Estimation using CNN and Segmentation Algorithm. 🔄

- Implemented **YOLOv3** for object detection with pre-trained weights .
- Used **GrabCut** algorithm for segmenting the required part from bounding box.
- Built a custom dataset of 10 food items by using **BeautifulSoup** and by DataLoaders in Pytorch.
- **Mean Average precision** was used for YOLOv3 evaluation which recorded as **68%** on test set.

### Spring REST based E-Commerce application using SAP Cloud platform. 🔄

- Developed **RESTful webservices** using Spring MVC and **hibernate** for ORM.
- Implemented **BasicAuth** using **Spring Security** and indexing for database.
- Deployed in SAP cloud foundry by creating a HANA database instance.

### Implementation of Generating Memes using Deep learning. 🔄

- Modelled **Inception-v3** network as an encoder and LSTM with attention mechanism as decoder.
- Pretrained **GloVe vectors** are used for word embeddings during the training captions.
- **Beam-Search** is used to predict next word in LSTM. Model is trained with both **Momentum** and **SGD**.
- **Perplexity** score of 3.04 was achieved.

### Solar Irradiance Forecasting using LSTM networks and Optimal Granule-Based PIs Construction 🔄

- **3 layered LSTM network** is used for predicting the time series of solar irradiance.
- Prediction intervals are constructed by using **Granular based neural network** along with **PSO**.
- Achieved Prediction interval normalized average width(PINAW) as **18%**.
- Proposed method shows improvement within **27%-35%** with respect to the direct method.

## SKILLS

### Programming Languages

Python, Java, C++, C.

### Tools/ Frameworks

Pytorch, Tensorflow, Keras, Spring, Django, REST, Git.

### Data Management

PostgreSQL, MySQL, MongoDB, SAP HANA.

## EDUCATION

### National Institute of Technology, Silchar

Bachelor of Technology in Electrical Engineering

May 2020

CGPA : 7.70

### Narayana Junior College

Intermediate (Mathematics, Physics, Chemistry)

April 2016

Percentage : 97.9