



SHREESHA N

SOFTWARE ENGINEER

Phone: 9886912181

E-mail: nshreesha2011@gmail.com

Website: shreesha.n@herokuapp.com

LinkedIn: www.linkedin.com/in/shreesha-n-43060194

Github: <https://github.com/ShreeshaN>

PURPOSE

Optimising the code I write and the life I live - through Technology

EXPERIENCE

DEEP LEARNING ENGINEER

Razorthink Inc (2015-Present)

- Build end to end predictive models using Deep learning
- Data Analysis on datasets in Computer Vision, Natural Language, Transactional data such as of Bank's
- Used Artificial Neural Networks such as FFN, CNN, LSTM's for model building

JUNIOR SOFTWARE ENGINEER

Razorthink Software (2015 - 2015) (8 months)

- Worked on building web services/REST API in Java
- Built web apps from ground up using Spring framework

SKILL SET

Languages

- Java
- Python
- JavaScript

Frameworks

- TensorFlow
- Spring MVC
- Spring Boot
- Spring Data
- Hibernate
- Flask
- JQuery
- PySpark_{basics}

Databases

- MySQL
- MongoDB
- Cassandra_{basics}

Technology

- Machine Learning
- Deep Learning
- Data Analytics
- REST web Services

EDUCATION

B.E COMPUTER SCIENCE

East West Institute Of Technology (2011-2015)

Aggregate - 67 %

PRE UNIVERSITY

RNS PU College (2009-2011)

Majored In Computer Science, Aggregate- 80 %

HIGH SCHOOL

The New Cambridge High School (2008-2011)

Aggregate- 88 %

PROJECTS

DEEP LEARNING

Conversion of Computer generated paper bills to its digital form - Convolutional Neural Networks

- Bills were scanned, processed and fed to a Convolutional Neural Network
- Network was trained to recognise and mark up patches of text in the document/bill
- Later this patch was extracted and converted to text by running through an OCR.
- Parameters for the model :
Layers: Input -> Conv -> Conv -> Pool -> Conv -> Conv -> Pool -> FC -> FC -> Output
Learning Rate :0.01,
Activation : Softmax,
Cost: Weighted Cross Entropy,
Regularisation: l2,
Optimiser: Adam

Life Insurance Prediction on Transactional Data - Convolutional Neural Networks

- Had to predict the probability of customers of bank X buying the bank's Life Insurance products
- The above task was achieved by encoding transactions, mode of transactions and type of transactions uniquely into a Convolution Net
- Parameters for the model :
Layers : Input -> Conv -> Conv -> Pool -> Conv -> Pool -> Conv -> Pool -> Conv -> Pool -> FC -> FC -> Op
Learning Rate :0.01,
Activation : Sigmoid,
Cost: Cross Entropy,
Regularisation: Dropout used with keep prob of 0.75,
Optimiser: Adam

Customer Churn Predictions - Long Short Term Memory Networks

- Had to predict the probability of customers of bank X churning out of their organisation
- The encoding structure was customer transactions over a period of 'n' months, customer demographics. Used an LSTM for the modelling part
- Layers : MultiRNN block with a stack of two LSTM cells with timestep = number of months, No of Units in each cell = 512, Sigmoid, Cross entropy, Adam

Generate SQL queries from Natural Language - Sequence to Sequence, Pointer Networks, Reinforcement Learning

- This project is currently in the implementation phase
- The approach followed here is taken from
- <https://arxiv.org/abs/1709.00103>

WEB

ResultGenie - Spring Boot, MySQL, MultiTenant Architecture

- www.resultgenie.com - This is a product built for Result Analysis of a Engineering college under VTU
- Stores students results, college wise, and gives analysis/projections of student, branch, subject, semester and finally college
- Each of the above projections have their own respective views which are rendered with some graphs and other visualisations
- This is still live - personally handled my me and my colleague

ShredsKerala, A Job Portal - Spring Boot, MySQL

- A job portal where an employer uploads their requirements
- A dashboard for the registered candidates where all the uploaded jobs can be seen. Had filters which the candidate could use to see relevant jobs
- Candidate could apply to jobs which they where eligible for

Sarvint, A Health Fitness App - Spring Boot, MongoDB, HTML, JQuery

- Built a backend to store data streamed from a mobile device. This data was streamed to mobile by a device attached on the chest region through bluetooth
- There was also a web view for the admin and the user of the app to see analyse the health data, which was rendered on the web through infographics

LANGUAGES

English, Kannada, Hindi