

SHREESHA N

SOFTWARE ENGINEER

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PURPOSE

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

EXPERIENCE

DEEP LEARNING ENGINEER

Razorthink Inc (2016-Present)

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

JUNIOR SOFTWARE ENGINEER

Razorthink Software (July 2015 - Feb 2016) (8 months)

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

SKILL SET

Languages - Python, Java, JavaScript, HTML basics

Databases - MySQL, MongoDB, Cassandra basics

Machine/Deep Learning - Predictive Modelling, NLP, Computer Vision, Gradient Optimisations, Decision trees, Convolution Nets, Recurrent Nets (LSTM & GRU), Attention and Pointer Networks, Reinforcement Learning

Frameworks and Libraries - TensorFlow, Flask, Spring Boot, Spring Data, Hibernate, Jersey, JQuery, Pandas, Numpy, Sklearn, PySpark basics

EDUCATION

B.E COMPUTER SCIENCE

East West Institute Of Technology (2011-2015)

Aggregate - 67 %, CGPA - 7.45

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 (Ask for details)

Bills were scanned, processed and fed to a Convolutional Neural Network. The Network was trained to recognise and mark up patches of text in the document/bill. This patch was extracted and converted to text by running through an OCR.

Life Insurance Prediction on Transactional Data - Convolutional Neural Networks (Ask for details)

Had to predict the probability of customers of bank X buying the bank's Life Insurance products. This task was achieved by encoding transactions, mode of transactions and type of transactions in a 3d tensor into a Convolution Net

Customer Churn Predictions - Long Short Term Memory Networks (Ask for details)

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

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 (Ask for details)

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

ShredsKerala, A Job Portal - Spring Boot, MySQL

A job portal where an employer uploads their requirements and registered candidates can apply to the jobs they are eligible for

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

A Health Fitness wearable sending impulses and all other health related information to a server backed by Spring boot and Mongo. This data was processed to show heart beat and other misc info on an iOS app. Also had a web UI to display infographics