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 the 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