Shashank S

Data Scientist · Yak Shaving Expert

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Experience

Bright Money Inc.
June 2019 – Present

Junior Research Scientist

- Early Data Scientist, involved in all things Data Science at Bright
- Design and productionize the Automated Debt Manager - an end-to-end system that analyzes the finances of an agent, collects the money required in a distributed fashion when affordable, pays the minimum dues of the credit cards; all the while maintaining the state of all cards and payments
- Bills identification, EDA, time-series analysis, various predictive models (income, expense, balance, affordability, overdraft), segment analysis, user behaviour tailoring
- Django, Python, AWS, Pandas, Numpy, Prophet, SARIMA

Fyle
May 2019 – June 2019

Data Engineer Intern

- Automated processing of relevant fields from digital invoices
- Identify and extract relevant text from bills, further classify merchant names in the text
- Python, OpenCV, Scikit-Learn, AWS

Robert Bosch Engineering and Business Solutions Private Limited
Aug 2017 – Dec 2017

Deep Learning Intern

- Using deep learning models for diabetic retinopathy, meibomian and glaucoma detection
- Testing and training the various neural network architectures like Inception-v3
- Improve segmentation through data augmentation using perturbation
- Python, OpenCV, Pillow, AWS, Django; Theano, Keras, TensorFlow

Dept. of Computer Science and Automation, Indian Institute of Science
Jul 2017

Summer student

- Selected among 80 students across India to attend the 5th Undergraduate Summer School
- Took courses on Cryptography, Machine Learning, Graph Theory, Computational Neuroscience, Game Theory

SuperText
Sept 2015 – Dec 2015

Android Developer Intern

- Designed and developed an android application for delivery personnel; implemented push notifications and location services
- Leveraged knowledge in Android SDK, Google Maps API, OneSignal(Push notification) and smooch.io(Chat);

Education

Bachelors, Computer Science and Engineering
2014 – 2018

Sir M. Visvesvaraya Institute of Technology | VTU — Thesis

Electives: "Pattern Recognition", "Artificial Intelligence", "Clouds, Grids and Clusters"

Publications

Effect of CapsuleNet as Discriminator on GANs — May. 2020

(submitted) IEEE BigMM

Deep Learning Segmentation and Quantification of Meibomian Glands — Dec. 2019

Biomedical Signal Processing and Control — (ScienceDirect)

Projects (GitHub)

Image Regeneration Semantic in-painting to generate parts of an image, using a CapsNet modified Generative Adversarial Network
Python, TensorFlow, Keras, Colaboratory

Pretty Pixel A computer graphics game involving manipulation of a three-dimensional playing field
C++, OpenGL, Linux

Souffleur A smart speech prompter which suggests forgotten lines of speech while on stage
Android, SQLite, Text-to-Speech

AuReader An immersive book reader which plays contextual music based on the dominant emotion of the page
Android, SyneSketch, ePub

Extracurriculars

Certification

2019 **Neural Networks and Deep Learning**, deeplearning.ai on Coursera — Certificate
2017 **Machine Learning**, Stanford University on Coursera — Certificate
2017 **Android Developer Nanodegree**, Google on Udacity — Certificate

Honors

2017 **First place in final year project exhibition**, "Image Regeneration with Generative Models" — Certificate
2016 **Scholarship from TATA Trusts and Google India**, Nanodegree at Udacity
2015 **ACM ICPC**, Honorable Mention — Certificate
2014 **Letter of commendation by Minister of HRD, Kendriya Vidyalaya**, AISSCE (12th Board) — Certificate

Skills

Machine Learning, Deep Learning, Algorithms, Data structures, Linux, Android
Pandas, Numpy, Scikit-learn, AWS, Django
C, C++, Python, Shell, HTML, CSS, JavaScript, SQL, OpenGL, TensorFlow
Octave, Java, Jekyll, Git, InkScape, GIMP, LaTeX