Shashank S

Data Scientist · Yak Shaving Expert

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Experience

Bright Money Inc.   June 2019 – Present

Early Data Scientist

- Build Debt Manager - Bright's flagship offering. An AI system that analyzes the finances of a user and takes actions to pay down their debt
- Build the system on Airflow and Django to serve 20k+ users daily, with minimal human intervention. As of 2020 driving 100% of the revenue
- Multiple 0-to-1 products like Bills Identification, Affordability Prediction, Overdraft Prediction, Liability Inferences
- Time-series analysis, predictive models (income, expense, balance, affordability, overdraft), segment analysis, user behaviour tailoring
- Work on product features to optimize for metrics (retention, activation, monetization)
- Django, Airflow, Python, AWS, Pandas, Numpy, Prophet, SARIMA

Fyle   May 2019 – June 2019

Data Engineer Intern

- Automate processing of relevant fields from digital invoices
- Identify and extract merchant names from bills
- Python, OpenCV, Scikit-Learn, AWS

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

Deep Learning Intern

- Use deep learning models for diabetic retinopathy, meibomian and glaucoma detection
- Test and train Inception-v3 and various other neural network architectures
- Improve segmentation through data augmentation using perturbation, publish results
- Python, OpenCV, Pillow, AWS, Django; Theano, Keras, TensorFlow

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

Summer student

- Among 80 students across India to attend the 5th Undergraduate Summer School
- Courses on Cryptography, Machine Learning, Graph Theory, Computational Neuroscience, Game Theory

SuperText   Sept 2015 – Dec 2015

Android Developer Intern

- Develop an android application for delivery personnel; implement push notifications and location services
- Android SDK, Google Maps API, OneSignal(Push notification), smooch.io(Chat)

Publications

Deep Learning Segmentation and Quantification of Meibomian Glands   Dec. 2019

Biomedical Signal Processing and Control   (ScienceDirect)

Skills

Machine Learning, Deep Learning, Algorithms, Data structures, Linux, Android

Pandas, Numpy, Scikit-learn, AWS, Django, Airflow

C, C++, Python, Shell, HTML, CSS, JavaScript, SQL, OpenGL, TensorFlow

Octave, Java, Jekyll, Git, InkScape, GIMP, LaTeX

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"

Projects (GitHub)

Image Regeneration An approach to a modified GAN with a CapsNet discriminator, demonstrated using Semantic Inpainting

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