Shashank S

Data Scientist · Yak Shaving Expert

first_contact@knhash.in | knhash.in | linkedin.com/in/knhash

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 | 79.5% 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