

## 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

MAR. 2020

Biomedical Signal Processing and Control

(SCIENCE DIRECT)

## 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