

# Jacob John

DATA SCIENTIST

Bachelor's in Computer Science at Vellore Institute of Technology, Vellore

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*An entry-level data scientist candidate with an ability to infer patterns and recognize trends by fine-tuning data.*

## Education

### Vellore Institute of Technology

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Current CGPA **9.43**

Vellore, India

Aug. 2016 - PRESENT

### Overseas Family School

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME (IBDP)

Singapore

July 2014 - 2016

## Certification

June 2020 <b>Stanford University</b> ; Machine Learning	Coursera
Feb. 2020 <b>Deeplearning.ai</b> ; Convolution Neural Networks	Coursera
Oct. 2019 <b>Higher School of Economics</b> ; Deep Learning and Computer Vision	Coursera
Aug. 2019 <b>Deeplearning.ai</b> ; Hyperparameter tuning, Regularization and Optimization	Coursera
Aug. 2019 <b>Deeplearning.ai</b> ; Structuring Machine Learning Projects	Coursera
May 2019 <b>Imperial College London</b> ; Mathematics for Machine Learning	Coursera
May 2019 <b>Deeplearning.ai</b> ; Neural Networks and Deep Learning	Coursera
Aug. 2018 <b>University of Michigan</b> ; Applied text mining in Python	Coursera
Mar. 2018 <b>University of Michigan</b> ; Data Science Ethics	Coursera
Mar. 2018 <b>Duke University</b> ; Introduction To Probability And Data	Coursera
Nov. 2017 <b>Edunox Learning Solutions</b> ; Fundamentals of Unix and Linux System Administration online course	Udemy
Sept. 2017 <b>Johns Hopkins University</b> ; R Programming	Coursera
Sept. 2017 <b>Machine Learning Bootcamp</b> ; Python for Data Science and Machine Learning	Udemy
Nov. 2016 <b>Skillbeta</b> ; Marketing and Advertising	Skillbeta

## Experience

### Grofers India Private Limited

INTERN (DATA TEAM)

Bengaluru, India

Dec. 2019 - May, 2020

- Part of the innovation hub - a team dedicated to optimizing supply chain strategies by leveraging data
- Detected anomalies in assortment dimensions to encourage weight-based pay out
- Determined an optimal series of assortment to be held at an intermediate location
- Worked extensively with GIS analysis and information retrieval

### Keva Flavours

DATA ANALYST

Singapore & India

May 2019 - June 2019

- Conducted statistical analyses using Excel to leverage the results and drive decision making
- Optimized factors for sales conversions and designed an LSTM for deal recommendations
- Dynamically integrated product predictions onto a web page using a Django Framework
- Performed image Recognition and Classification of food items using CNNs ([GitHub](#)).

### Johnson & Johnson Vision Care

MARKET RESEARCH ANALYST

Singapore & India

May 2018 - June 2018

- Audit stores for consumer experiences and defined areas with the potential to improve.
- Provided an update on contact lens market size and consumer dynamics and ensured survey programming was correctly implemented
- Designed a data dashboard to dynamically capture and visually track the condition of the market and Acuvue's range of contact lenses.
- Utilized data-driven tools to deliver actionable insights for consumer price preferences

## Research & Projects

### Crime Mapping in India

VELLORE INSTITUTE OF TECHNOLOGY

Vellore, India

Nov. 2019

Focused on displaying criminal activity against women on the map of India using multi-class text classification ([GitHub](#))

### Smart Prediction and Monitoring of Waste Disposal

DOI:10.35940/IJITEE.A4242.119119

Vellore, India

Oct. 2019

Collecting bin fill level using an embedded system, prediction using LSTMs and presenting a dynamic dashboard using FireBase ([GitHub](#))

### Grocery Prediction

VELLORE INSTITUTE OF TECHNOLOGY

Vellore, India

Jan. 2019

Exploiting a word-based neural language model to predict sequences of grocery items ([GitHub](#))

### Image Dehazing through Dark Channel Prior and Color Attenuation Prior

INDERSCIENCE (UNDER REVIEW)

Vellore, India

Sep. 2018

Used two prominent image processing techniques to dehaze images and then evaluate the effectiveness of both ([GitHub](#)).

### Design and Investigation of a record system using Hash Collision Resolving Techniques

I-MANAGER'S JOURNAL ON SOFTWARE ENGINEERING 13 (2), 37

Vellore, India

Nov. 2017

Provided comparative study on the different hashing techniques based on mathematical time complexity.

## Presentations

April 2016 **Shortest Path Algorithms**; Demonstration on digraphs and applications to computer science.

Vellore, India

Nov. 2016 **The concepts of relativity**; Conducted lecture on the engineering aspects of relativity.

Vellore, India

July 2015 **Oral Presentation Record**; Earned double the number of requirements for the excellence level

Singapore

## Workshops & Competitions

June 2020 **Internshala Data Science Challenge**; Winner - First Place

Internshala

June 2020 **VIT, Stat-A-Thon '20**; Forecasting trends in COVID - 19 (Top 10%)

Vellore, India

Oct. 2019 **VIT**; Merit Award for Academic Excellence

Vellore, India

Sep. 2019 **CMC, Pegasus '19**; 1st Place in Hockey 11-a-side

Vellore, India

Oct. 2018 **IEEE CS, Think Before Code**; 2nd Place at Programming Contest

Vellore, India

Mar. 2018 **VIT, Math-A-Thon '18**; Data mining for infectious disease epidemiology (Top 10%)

Vellore, India

Feb. 2018 **Datamits**; Machine Learning and Streaming Big Data Analytics

Vellore, India

Jan. 2018 **State University of New York**; Cyber Security Workshop

Vellore, India

Oct. 2017 **VIT, Stat-A-Thon '17**; Bio-Statistics in Pharmaceutical industry (Top 5%)

Vellore, India

Sept. 2014 **Battle of the Bands**; Winners at Overseas Family School

Singapore

## Skills

**Languages** English (Professional), Spanish & Hindi (Intermediate) and French & Malayalam (Basic)

**Computer Proficiency** Python, SQL, R, Java, PHP, C, C++, HTML, Javascript, AJAX, CSS, Node.js, XML, XSD, XSLT, JSON, Excel, 8086, LaTeX

**Content Creation** Final Cut Pro, Adobe Premiere Pro & Photoshop, Garageband and Logic Pro X, College Community Radio

**Hobbies** Hockey (College Team), Drumming, Rugby, Long Distance Running & Track and Field (School Teams)

## Extracurricular Activity

### MUSIC AND CONTENT CREATION

2018/19 **VIT Community Radio**; Secretary & Public Relations Officer

Vellore, India

2018 **Radio Hosting & Production**; Event Coordinator & Media team for Riviera'18

Vellore, India

2018 **Visual Bloggers' Club**; Event Coordinator for "Paperless Postcards"

Vellore, India

2014 **The Lemons Productions (Co-founder)**; Non Profit Video Production for School

Singapore