

# SURYA KRISHNAMURTHY

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## EDUCATION

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**Vellore Institute of Technology, Vellore**  
Bachelor of Technology, Information Technology

*June 2016 - May 2020*  
Cumulative GPA: 8.6/10

**Shrishti Vidyashram**  
Senior Secondary

*June 2016*  
Percentage: 90.8%

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	Python, R, Julia, C++
<b>Software &amp; Tools</b>	PyTorch, Tensorflow, Spark, SQL/NoSQL, Stan, Linux

## RESEARCH

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**Using Artificial Intelligence-based models to predict the risk of Mucormycosis among COVID-19 Survivors: An Experience from a public hospital in India.** December 2021

*[Journal of Infection](#)*

- To the best of our knowledge, this is the first study to develop a machine learning model to predict the risk of mucormycosis among COVID-19 survivors.

**Evaluating Deep Neural Network Architectures with Transfer Learning for Pneumonitis Diagnosis** September 2021

*[Computational and Mathematical Methods in Medicine](#)*

- Comparative analysis of various image classification models based on transfer learning with well-known deep learning architectures.

**Machine Learning Prediction Models for Chronic Kidney Disease Using National Health Insurance Claim Data in Taiwan** May 2021

*[Healthcare](#)*

- Prediction of Chronic Kidney Disease risk from diagnosis and medication history using machine(deep) learning approaches.

**Deep Learning for Short Answer Scoring** March 2019

*[International Journal of Recent Technology and Engineering](#)*

- Using Deep Learning for the task of automated scoring of short descriptive answers.

## EXPERIENCE

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**IQGateway, Bangalore**  
*Associate Data Scientist*

June 2018 - Current

- Prototyping a route optimization system for waste management
- Leading the development of an AutoML platform. Conducting research on interpretable ML
- Automated functioning of home appliances with machine learning
- Analyzed tea images to identify the quality of tea
- Designed and developed recommendation engines for online education platforms
- Worked on forecasting sales based on products, stores, time and geographical data
- Worked on an OCR system for processing forms

**Taipei Medical University**, Taiwan

May 2019 - June 2019

*Research Intern*

- Developed machine learning and deep learning models to predict Chronic Kidney Disease risk from diagnosis and medication history under the TEEP AsiaPlus Program
- Worked on survival analysis on actigraphy data

**Skript**, Chennai

June 2018 - June 2018

*AI Intern*

- Collected text from web and built a model to detect the emotions in a text with performance comparable to commercial solutions
- Developed a deep-learning based image classifier to identify the type of clothing worn by a person
- Published a case-study on PlayStation E3 by analyzing and visualizing tweets

## ACHIEVEMENTS

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Special Student Achievers Award VIT, 2018-2019

Winner of AngelHack Agora challenge Bangalore and Agora RTC Beijing, 2018

Winner of Juspay HyperHack IITM Shaastra, 2018

Winner of CodeSpace hackathon VIT, 2018

Finalists in Global Conference on Advances in Science, Technology and Management (GCASTM) VIT, 2017

## RELEVANT COURSES

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### Related Courses

Soft Computing  
Data Mining Techniques  
Artificial intelligence  
Natural Language Processing  
Big Data Analytics  
Data Science by Jeffrey Strickland

### Other Courses

Statistics for Engineering  
Applied Linear Algebra  
Transformation Techniques  
Calculus for Engineers  
Digital Image Processing

## CERTIFICATIONS

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[Udacity Machine Learning Advanced Nanodegree](#)

[NPTEL Data Science for Engineers \(Top 1%\)](#)

[Coursera - Deep Learning Specialization](#)

[Coursera - Machine Learning](#)

[Microsoft Technology Associate for Introduction to Programming Using Python](#)

## STUDENT ACTIVITIES

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**Google Developer Groups**, VIT

February 2017 - May 2019

*Technical Member*

*VIT Vellore*

- Worked on several projects based on Machine Learning and Back-end Web Development
- Conducted a workshop on Computer Vision. Devised introductory hands-on tutorials for participants through Google Colaboratory which was also made public
- Taught basic Python for beginners on our weekly workshops

## RELEVANT PROJECTS

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**mlgauge** – ML benchmarking library based on pmlb and openml

**vityBot** – A personal assistant for students in VIT university based on NLP to improve productivity

**Neural Style Transfer** implementation in keras

**unSting** – disaster recovery and management platform based on autonomous drones powered by computer vision and RTC

**MediKit** – Improved data-centric healthcare system powered by IoT and ML

**FaceRec Security System** powered by IoT and ML

**Intrusion Detection System** based on Machine Learning

**WiFi Rover** – Robot to traverse rugged terrains controlled with gamepad

**Pneumonia detection** through image enhancement and feature extraction