

# keerthivasan



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## Profile

Driven and motivated individual seeking knowledge and real-world experience in Python Programming and Digital Electronics. Offers strong dedication to work and dependability to make valuable contributions to the workspace.

## Skills

### Python Programming

*Using Python to Interact with Operating System, Troubleshooting and Debugging Techniques and Automating Real-World Tasks with Python*

### Electronics Design Automation

*Xilinx, Tanner, Proteus and Keil uVision5*

### Linux

*Bash Scripting and System Log parsing*

### Version Control System

*Git and GitHub*

### Machine Learning

*Deep Learning and Computer Vision*

### Configuration Management and the Cloud

*Puppet CMS tool and Google Cloud Services.*

### Keyboarding

*Typing speed of 100 - 110 WPM.*

## Education

### Bachelor of Technology (Hons.) Electronics and Communication Engineering,

*Lovely Professional University* ✎

2019 – 2023 | Phagwara, India

with 7.64 CGPA

*XII, Pinnaacle Classes* ✎

2018 – 2019 | TamilNadu, India

with 7.34 CGPA

*X, Narayana Group of Schools* ✎

2016 – 2017 | Nellore, India

with 8.8 CGPA

## Projects

### Sequence and Pattern Detector,

*Mealy State Machine designed using Verilog* ✎

Designing Sequence detector Mealy finite state machine to detect when a fixed pattern 1001 is seen in a stream of binary bits that are input to it. And 110100 Pattern detector which detects slightly longer pattern.

### Custom Cryptocurrency,

*using Blockchain with Python* ✎

Developing own Cryptocurrency utilizing Blockchain Technology in its backend to support Enhanced security, Decentralized network and Instant traceability.

### Smart Attendance System,

*using Deep Learning and Machine Learning* ✎

Constructing Deep Learning Model to detect and extract Face Embeddings in the dataset using pre-trained Caffe and Open face models. And train Support Vector Machine classifier using Embeddings with Labeled (student name) data.

### Log Analysis Using Regular Expressions,

*Automation Tasks with Python* ✎

Generating reports on the ranking of errors generated by the system and the user usage statistics for the service. Converting csv to tabulation html file.

### Character Recognition,

*using Convolutional Neural Networks* ✎

Training CNN to recognize binary disparate characters using Keras Sequential Model with Batch Normalization. Saving the trained model and loading it in real time character Recognition.

## Certificates

- Crash Course on Python [↗](#)
- Using Python to Interact with the Operating System [↗](#)
- Introduction to Git and GitHub [↗](#)
- Troubleshooting and Debugging Techniques [↗](#)
- Configuration Management and the Cloud [↗](#)
- Blockchain Basics [↗](#)
- Data Analytics Master Class [↗](#)
- Artificial Intelligence Master Class [↗](#)
- Machine Learning Master Class [↗](#)

## Languages

### **English**

*adept*

### **Tamil**

*Native*

### **Telugu**

*lived for 24 months in Nellore*

## Courses

### **Blockchain Specialization, *coursera*** [↗](#)

02/2022 – present

Understanding and working knowledge of foundational blockchain concepts, understanding and working knowledge of foundational blockchain concepts, developing decentralized applications on the blockchain and sussing out ongoing specific industry-wide blockchain frameworks.

### **Google IT Automation with Python Professional Certificate, *coursera*** [↗](#)

01/2022 – 07/2022

Using Python to automate common system administration tasks. A good hand at managing Git and GitHub repository, Troubleshoot and Debug complex problems, and Apply Automation at scale by using Configuration Management and the Cloud.

## Professional Experience

### **Internship on Machine Learning,**

*Pantech Solutions*

06/2022 – present

Deploying Machine Learning Model using Optimal Solutions such as Linear regression, Logistic regression, Decision tree, SVM algorithm and Random forest algorithm.

### **Internship on Artificial Intelligence,**

*Pantech Solutions*

04/2022 – 07/2022

Developing Python Scripts for Face Recognition, Real-time Object Tracking and Emotion Recognition using Computer Vision.

### **Internship on Data Analytics, *Pantech Solutions***

02/2022 – 04/2022

Getting exposure to Statistics, Population and Sampling, Tabelu, Power BI, MySQL, MongoDB and Machine Learning.