

## LEKSHMI V P

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### Objective

To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills, and to reaches the pinnacle in the computing and research field with sheer determination, dedication and hard work.



### Skills

- C, C++, Python
- Django, Numpy, Flask, Scikit-learn, Matplotlib, NLTK
- Mongodb, Express.js, React, Node.js(MERN) Css, Html, Bootstrap
- Java, JavaScript, SQL
- Image processing -OpenCv, dlib
- Understanding of Docker, Docker compose, Hadoop and Spark, NLP - SpaCy, nltk
- Machine learning, Deeplearning - Tensorflow, Pytorch, Keras
- Understanding of Git, Postman, MS-Azure
- MS- Excel expert and all suites of MS-Office, Latex coding
- IDEs- Visual Studio code, Pycharm, Sublime Text, Mongodb, Colab, Android studio
- Using both OS, Windows and Ubuntu
- Communication and collaboration skills, Easy catching, Time - management



### Experience

#### Technopark

August - 2018 - April - 2019

Android Developer Trainee

Design and build advanced applications for the Android platform. Learning Android development. Collaborate with cross functional teams to define, design and ship new features. Work on bug fixing and improving application performance. Continuously discover, evaluate and implement new technologies to maximize development efficiency. Developed using Java, SQL

#### Manorama Horizon

May - 2019 - Mar - 2020

Subject Matter Expert (contract)

Subject Matter Expert in Physics, Computer Science and Mathematics.

Primary content development work will be of well-explained solutions (in step-by-step manner) to unsolved end-chapter exercises in various formats and various boards.

Code notes including mathematical formulas in LaTeX coding. Work will include reviewing of the content created by other content developers or SMEs and to guide them in order to prepare the content of highest quality. Work with LaTeX coding and Microsoft Excel

## Technopark

Sep - 2019 - Dec - 2020

Jr. Software Developer

Help design and implement functional requirements.

Build efficient back-end features in Python django. Integrate front-end components into applications.

Manage testing and bug fixes, prepare technical documentation. Implement software enhancements and suggest improvements. Using code versioning tool such as Git.

## Freelance Project

Sep -2020 - Feb -2021

Jr. ML developer

Associated with a project, Detection and automatic registration of vehicles with rpi.

Worked on the trigger section, When an event comes in, and it will observe then crop the vehicle and it's number plates, and save the vehicle model and it's details in a directory and save the number plates details in an another directory. Associated the project areas working with Python, Numpy, flask, OpenCv, Skimage, matplotlib, Mobile net.SSD-caffe model, Tensorflow

## Spotix

Jan - 2021 - Nov - 2021

Full stack developer

Designing responsive UI screens using Html, CSS, Bootstrap framework and JavaScript.

Backend Rest API development using Python.

Working with Mongodb, Express.js, React, Nodejs API development.

Used Postman for design, build and test api.

Pixel- perfect implementation of the approved user interface.

## Spacelabs

Nov - 2022 -

Full-Stack Software Simulation Engineer

Working In Web based user interface.

Using Python and its libraries, Django, C++, Matplotlib, chart.js

Developing Algorithm design, User friendly visualization of 2D and 3D graph plots, Port data to tables and consoles.

Software Simulation and Trajectory Optimization using Python.



## Projects

### Android App

An end-to-end protocol messaging framework using HTTP protocol. Connection establishment protocol (CEP) is linked with Traffic Management protocol. Message encrypted with AES-256 encryption technique.

### E-commerce RestAPI

React, Node.js, Express js, Mongodb

Modern E- commerce Rest API using Stripe payment method

### Pipeline for register car details

Python, Numpy, OpenCv, Skimage, math, matplotlib, Mobilenet.SSD - caffe model, Tensorflow version 1.

It is a pipeline to register car details in a parking cctv system with rpi.

An event comes in the directory , it will observe crop the cars and its number plates and save the details.

### ● **Music Recommendation Based on Facial Expression**

Keras, Flask, Tensorflow, Spotipy, flask.

Live video feed from webcam, pass it through the model to get a prediction of emotion. According to the prediction emotion, app fetch playlist of songs through spotipy wrapper and recommend the songs by displaying them on the screen.

### ● **Sentiment Analysis Web App**

Flask, Sklearn, Requests, NLTK, RE, vaderSentiment

A machine learning end to end flask web app for sentiment analysis model created using Scikit-learn and vader sentiment.

### ● **Face Detection**

Python

OpenCV

Detect face from photos and videos

Using face encoding method

### ● **Pharmacy Management System**

Python mini project. Simple GUI based Pharmacy Management of medicine items. This mainly focus on CRUD. There's an external database connection file used in this mini project to save user's data permanently.

### ● **Social media app - Build and Deploy**

React, Redux, Node.js, Express.js, Mongodb

A full stack simple social media application that allows users to post interesting events that happened in their lives.

### ● **Reservation App**

React, Node.js, Express.js, Mongodb

MERN stack hotel reservation app project

Full stack app using context API, JWT, React calendar and custom hooks

### ● **Admin panel - Front end**

Python, Django

web development of Django admin panel

Work include photo updation

KYC updation - OTP verification

### ● **Potato Disease Classification Using CNN**

A DL project using CNN built a mobile app.

Which can take a picture and the app will predict, if the plant has a disease or not.

Build by using Tensorflow, Tf dataset, CNN, Data augmentation

### ● **Django REST API**

Django Rest framework project which is a file sharing app. App like Google drive

Created Rest API.

### ● **Travel / Tourism Website**

Complete Responsive Travel and Tourism Website providing services for customers.

Website using Html, CSS and JavaScript

### ● **Colour Prediction**

An application through which can automatically get the name of colour by clicking on them.

Colour detection using Pandas and OpenCV



## Achievements & Awards

- AI with MS-Azure course completed and certified by Microsoft
- Guvi AI grant Event completed and certified
- Completed Python Online course
- Completed Full Stack Developer internship
- Scholarship provided by Ramakrishna Asramam 3500 Rs/ month during the college period
- Guvi AI for women event attended and certified



## Education

- **University College of Engineering , Karyavattom, TVM**  
2018  
B.Tech Computer Science and Engineering  
60%
- **SNV GHSS Kadakkavur, TVM**  
2013  
Higher Secondary  
69%
- **GHSS Kavalayoor**  
2011  
High School  
83%



## Activities

- Doing Machine Learning, Deep learning, and Tensorflow online course
- Data visualization with Python, Deep learning with PyTorch
- Attending all online events based on technology and try to learn other projects
- Reading all type of books



## Languages

- English
- Malayalam (Native Language)
- Tamil
- German



## Declaration

- I hereby declare that the information furnished above is true to the best of my knowledge. I do hereby declare that above particulars of information and facts stated are true, correct and complete to the best of my knowledge and belief.

Lekshmi V P