

SILVANUS DAVID

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EXPERIENCE

DECEMBER 2019 – FEBRUARY 2021

AUTOMATION CONSULTANT

FAMOUSPLAYS.LIVE

- Developed a custom bot for the client
- Client was in a situation where they had to process thousands of orders daily
- People were slow and prone to committing errors given the sheer number of orders to be processed
- Purpose of the bot was to process the orders faster and accurately without any input from the user
- The bot was implemented in **python and UNIX Shell Scripting**. I have used **Optical Character Recognition, Computer Vision, and automation** technologies to come up with the solution.

SEPTEMBER 2018 – MAY 2019

BACKEND WEB DEVELOPER

TORR TRANSFORMATIVE TECHNOLOGIES

- Worked in close liaison with clients and UI/UX designers
- Worked with **Ruby on Rails** framework
- Also worked with **blockchain** technologies for one of the projects

05 MAY 2017 – 05 JUNE 2017

TRAINEE SOFTWARE ENGINEER

STUDENT UNIQUE CARD APP

- Managing and maintaining databases
- Daily work includes making sure that database services are running without any issues on the server
- Updating the tables with new data
- Normalizing the database
- This was implemented on **MariaDB** and **UNIX Shell Scripting** was used to automate daily database maintenance

EDUCATION

2014 - 2018

COMPUTERS AND COMMUNICATIONS ENGINEER

MANIPAL INSTITUTE OF TECHNOLOGY

CGPA – 6.3

SKILLS

- **Neural Networks, Machine Learning and Artificial Intelligence** - *Really good with most of the concepts, algorithms and its applications*
- **Python for Data Science** – *Advanced*
- **UNIX shell scripting** - *Advanced*
- **Tensor flow, Theano, Object Oriented Programing** - *Advanced Intermediate*
- **JavaScript** - *Intermediate*
- Risk management processes and analysis
- Self-motivated
- Process implementation
- Extremely organized

PROJECTS

Custom Bot to process orders for *famousplays.live*

I helped my client, *famousplays.live*, automate their day to day business tasks. I have managed to automate 9 man hours' worth of *famousplays.live*'s work per day with my custom bot being able to finish the work faster by a factor of 4.5 times. By running multiple instances of the bot, I was able to bump the speed to 12 times faster than a human. Using my solution *famousplays.live* was able finish 9 man hours' worth of work within 45 min on a daily basis.

Automated segmentation of brain tumor using modified fuzzy clustering

In VIII Semester for Final Year Industrial Training

Segmenting tumor regions in brain, if any, using concepts of Machine Learning and Fuzzy Logic from MRI images and obtaining details about tumor like

- size
- texture
- type
- border

MINI PROJECTS

Disease prediction System using Data Mining

in VI semester for *Data Mining* course

Using different Data Mining, Machine Learning and data visualization techniques on hospital data useful information is obtained like *classifying places as prone to diseases, identifying common diseases in an area, identifying cause of these common diseases and to classify a new in patient coming from these areas as more susceptible to these common diseases based on his symptoms*. Done using *RapidMiner Studio*

Detecting Sinkholes in Wireless Sensor Network using Machine Learning

Personal Project

By monitoring the Traffic on a WSN and using simple k-means, it could classify a given node as compromised depending on if the given node is sinkhole or not. Built using Sci-kit Learn on python

Interfacing different modules on LPC_1768

in IV semester for *Embedded Systems* course

Interfacing Different modules on the board, like

- keypad
- LCD 16x2
- Digital to Analog Converter
- Analog to Digital Converter
- Pulse Width Modulation
- Stepper Motor

Programing a microcontroller to detect temperature changes and automatically adjust thermostat using LM35

in IV Semester for *Sensor Technology* course

Interfacing LM35 temperature sensor with Arduino to keep the ambient temperature of the room stable and display temperature details on a 16x2 LCD display

Intranet Chat App for Android

in VI semester for *Mobile Android Development Lab*

Can communicate within a LAN/WLAN, with any number of users. Runs on both Android and PC. Built using node.js and Android Studio



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