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# QUALIFICATIONS PROFILE

* **Machine Learning:** Proficient at developing and deploying predictive machine learning models to resolve real work problems. Detailed knowledge of machine learning algorithms and principles.
* **Data Science:** Deep knowledge and experience in implementing several analytical approaches for structured and unstructured datasets. Passionate to identify complex patterns and extract useful information from data.
* **Software Engineering:** Track record of building qualitative software to meet and exceed customer’s requirements in a challenging environment. Detailed knowledge of software standards and requirement engineering process.
* **Project Management:** Adept at planning, scheduling, and delivering projects within budget and time constraints. Deft at steering projects at both micro and macro levels while monitoring progress reports and performance against service level agreements.
* **Key Strengths:** Effective and efficient Problem solving. Excel at interfacing with customers, engineers, and management. Able to convey complex technologies to a variety of skill levels. Talent for quickly learning new information, procedures, and technologies. Exceptionally organised and able to multitask.

Core Technologies:

|  |  |
| --- | --- |
| Programming:  Key Libraries: | Python, C, Raspberry pi (micro python)  Scikit-learn, TensorFlow, Keras, Pandas, OpenCV, NumPy, Matplotlib |
| Web Technologies: Cloud Computing: | HTML, CSS, AJAX, Netlify  Google Cloud Platform, AWS |
| Database: | MySQL, SQLite, MongoDB |

# EDUCATIONAL BACKGROUND

## Master in Applied Artificial Intelligence and Data Science – 2023

Solent University, Southampton, UK  Expected Distinction

## Bachelor of Science in Electronics and communication Engineering– 2021

Cit, Chennai ,India  First-Class Honors Graduate[8.23]

# EXPERIENCE HIGHLIGHTS

**Freelancer,** Up work , September 2022 – Present

*Technologies: Python, C, Object-oriented programming, Machine Learning Algorithms, and Data Science.*

* *Contributing clients for creating portfolios*
* *Creating dashboard for stakeholders and visualizing data and prepare reports*
* *Completing clients ML based project using algorithm in regression and classification model.*

**Data Analyst,** Cybernetik technologies, April 2021 – January 2022 [Intern]

* Responsible for reviewing and developing clients detailed report.
* Managing data base server and compiling reports by ensuring accuracy.
* Lialising with colleagues and preparing dashboards using tableau.
* Developing better visualization for data uniqueness.

*…Continued…*

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**Freelance Software Developer,** Fiverr, December 2020 – March 2021

*Technologies: Web technologies, Agile software development, Test-driven development, Unit testing, Object-oriented programming, Netlify , Slim framework, JSON, and GitHub.*

Engineered software for multiple platforms including desktop, mobile and web whilst leveraging technical and transferable skills. Designed, implemented and deployed applications with features like user login/register, admin panel, data encryption, etc. Refined software engineering and problem-solving skills to resolve real world problems while bringing clients’ requirement to reality.

* + Received positive reviews and favourable ratings from clients.

# KEY PROJECTS

**Web based Skin disease classification and detection using federated learning** (Dissertation)**,** October 2022 – Jan 2023

*Technologies: Python, TensorFlow, Keras, OpenCV, NumPy, Artificial neural network ,flask, Agile software development, Unit testing.*

Trained convolutional neural network utilising TensorFlow and Keras in python, to detect patients raw image data using data segmentation. Neural network model achieved more than 80% accuracy in detecting five most common skin disease. Several approaches like experimenting with quantity of neurons and epochs, and data augmentation, were employed in order to improve the accuracy of the convolutional neural network model. Deployed trained model on the web using Flask. Predicted using new image to find the skin disease .

**Crypto Predictor**, July 2022

*Technologies: Python, TensorFlow, Keras, Scikit-learn, Artificial neural network, NumPy, Pandas, Matplotlib, Data Exploratory Analysis, Netlify, Agile software development, html ,css , streamlit and cloud computing.*

Analysed and cleaned a Crypto dataset, to understand correlation between several factors and close volume of prices in the dataset. Utilizing research and acquired knowledge to build predictive machine learning model, which is a neural network model with many hidden layer with activation function to simulate regression model using GRU and prophet model . The machine learning model achieved about 80% accuracy during training on validation dataset and also created Rff news feed with profit calculator

* Live demo – <https://puolee.netlify.app/>

Hobbies :

* Used to stream games in twitch platform and tech coding for viewers.
* Craze on watching cricket of any matches .