

ARCHANA SURESH

EXPERIENCE SUMMARY

Innovative **AI developer** with **3 years of experience** in **Application design, Development** and **Testing**. Highly Experienced in writing codes and algorithms with comprehensive knowledge in **Machine learning concepts, Natural language Processing, Image Processing**, and other related technologies. Unique ability to identify, understand and translate program requirements into sustainable, advanced technical solutions through **python, R**, and other programs for continuous improvements of AI.

CAREER SUMMARY

AI Software Developer, 01/08/2019- 7/10/2022
Techversant Infotech – Infopark, Cochin, India

- Design and execute well-engineered, easy-to-maintain, reliable and bug free code for various company applications in collaboration with other AI engineers, data scientists and programmers.
- Designed artificial intelligence solutions to provide predictive analytics and forecasting.
- Performed data acquisition, preparation, and analysis to support Artificial Intelligence solutions.

PUBLICATIONS

- Development of Intelligent Internet of Things (IoT)-Based System for Smart Agriculture, IoT Applications, Security Threats, and Countermeasures, Edited By Padmalaya Nayak, Niranjana Ray, P. Ravichandran, CRC Press, August 2021 ([IoT Applications, Security Threats, and Countermeasures - 1st Edition \(routledge.com\)](#))

ACCOMPLISHMENTS

- **Best Performer** for the Quarter 1 – 2021 from AI & Data science Department, Techversant.

EDUCATION

Master of Science, MSc in Financial Technology, 08/2022 - Present
Gloucestershire University - Gloucester, United Kingdom

CONTACT

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SKILLS EXPERIENCE

PROGRAMMING LANGUAGE

- PYTHON
- JAVA
- R
- C, C++
- HTML

TECHNOLOGIES

- Artificial Intelligence
- Machine Learning
- Data Science
- Image processing
- Deep Learning
- Natural Language Processing
- GitHub
- Python Libraries
 - Pandas
 - NumPy
 - PyTorch
 - OpenCv
 - Tensorflow
 - Karas
 - Scikit-learn
 - Matplotlib
 - Bokeh
 - plotly

FRAMEWORKS

- Django
- Flask

MAIN PROJECTS

- **Survey Recommendation**

Recommender systems (RS) are used to help users find new items or services, such as books, music, transportation or even people, based on information about the user, or the recommended item. ML algorithms are being used in RSs to provide users with better recommendations for a user by taking the data from the given database

Duties: Client data extraction, Client Data Analysis and data representation using bokeh, Train test split- coding, identify best survey using KN, Testing

- **Rooftop Detection and Area Calculation**

In rooftop detection, Developed application will detect roofs from the satellite images and Google API extract the images and annotate roofs for training and testing dataset. Deep learning algorithm MRCNN is used to detect roofs from the image and calculate the total area of roof expecting blocks on the roof.

Duties: Data Analysis(image), Image Resizing, Annotation (VGG) , Image Contouring

- **License Plate Detection**

The system extracts the number plate from the detected vehicle and gets the details of the owner. This helps the Vehicle department to find out the vehicles which are violating the traffic rules. MRCNN is used for object detection which solves complexity more efficiently within a small-time span.

Duties: Convert video into different Frame, Automatic Brightness and Contrast Adjustment, detect vehicle from video using MRCNN

- **Audio Processing**

Deep Speech is a tool for automatically transcribing spoken audio. Deep Speech takes a stream of audio as input and converts that stream of audio into a sequence of characters in the designated alphabet. This conversion is made possible by two basic steps: First, the audio is converted into a sequence of probabilities over characters in the alphabet. Secondly, this sequence of probabilities is converted into a sequence of characters.

Duties: Model Development, Data Collection, Data Analysis

- ANACONDA
- JUPYTER
- PYCHARM
- VISUAL STUDIO CODE
- GOOGLE COLAB