

Vijay Rameshkumar

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Chennai, IN

Data Scientist and DL & ML Engineer

~1.5 years experienced, in Data Science & Deep learning Engineer, 1.5 years experienced in Product development Engineer and Patent research analyst. Highly skilled in various ML, Deep learning techniques & Predictive Analysis to successfully execute projects and deliver compelling business value.

- [IOT SOLUTION ENGINEER](#) (Edureka - online)
- MACHINE LEARNING AND DATA ANALYTICS (Hope Tutors - offline)
- DEEP LEARNING (Applied AI - online)

PROFESSIONAL EXPERIENCE

Machine Origin

Data Scientist, Deep Learning Engineer

Bengaluru, IN | May '19 - Present

Machine Origin is a one of the leading computer vision startup which located in Bangalore, Karnataka, India. we've developed surveillance based applications like anomaly or suspicious detection, tracking through various methods.

Data Scientist, Deep Learning Engineer :

- Coordinated with the Engineering team for **collecting, cleaning and processing** huge data-sets.
- **Labeling** the datasets accordance to the type of business problem.
- Technical Analysis of Problems with proposed SOA models.
- Providing perfect Deep Learning solution to the clients.

Suriyan innovatives

Product Development Engineer (end-end solution)

Chennai, IN | Jul '18 - May '19

Suriyan innovatives is a recently started-up product development based company. They're innovating home automation products and they're offering services for various leading industries.

Junior Robotics Engineer:

Product Development

- Initiated new products in the domain of customer experience management, contextual & real-time marketing, etc.
- Design new products as per the customer requirements.
- Design and Fabrication of robots structure.
- Integrate IOT solutions.
- Designing and controlling electronics using micro-controllers.

EDUCATION

Salem college of Engg. and Tech.

B.E - Mechatronics

Salem, IN | May '13 - May '17

- Specialized in Machine Learning Applications
- Specialized in IOT and Automation

KEY SKILLS

Deep Learning (Computer Vision)

- **Datasets Preparation:**
 - Data collection to cleaning
 - Image Labeling
- **Areas of Expertise:**
 - [Object Classification](#) (ResNET, VGG16, Inception)
 - [Object Detection](#) (Mask RCNN, YOLO (V3, V4) , SSD, Retinanet)
 - [Object Tracking](#) (Deep SORT, Centroid Based Tracking)
 - [Video Action Recognition models](#) (I3D - kinetics Models)
 - [Video Anomaly Detection](#) (Through Action, pose)
 - [Pose Detection Model](#)

Machine Learning Algorithms

- Supervised Learning
- Unsupervised Learning
- Sentiment Analysis
- Application Development
- Data and Quantitative Analysis and visualization
- Text Mining and Processing

• Predictive Modelling & Analysis • Data Mining • Project Monitoring & Management
• Client Relationship Management • Strategy Formulation • Visualization Tools • Image Processing

Internet of Things

- IOT solution with Azure • Remote Monitoring • Edge computing and analytics • Working with HTTP/MQTT protocol • Working with different sensors and controllers • Twitter Bot
- Smart home automation with alexa or Google assistant

TECHNICAL SKILLS

- **Machine Learning Learning Frameworks:** Scikit-learn
- **Deep Learning Frameworks:** Keras, Tensorflow, Tensorboard
- **CV Frameworks:** openCV, PIL
- **NLP Frameworks:** Spacy
- **Data Manipulation and Analytics :** Numpy, Pandas
- **Tools/Languages:** Python, C++
- **Web Frameworks:** Django **RESTfull** web servies
- **Cloud:** Microsoft Azure, Amazon EC2, Google colab, Kaggle
- **Visualization Tools:** Matplotlib, seaborn
- **Database:** MySQL

ONLINE

LinkedIn:

<https://www.linkedin.com/in/juzz4vijay/>

Kaggle Profile:

<https://www.kaggle.com/baksvijay/kernels>

GitHub Profile:

<https://github.com/VijayRameshkumar>

WORK SAMPLES

Kaggle Profile: (ML Hackathons kernels)

- <https://www.kaggle.com/baksvijay/kernels>

GitHub Profile:

- <https://github.com/VijayRameshkumar>

Google Drive:

- [Weather Station with Raspberry-pi](#)
 - [Sample weather report](#)
 - [Deployed ML Model](#) using Django RESTfull Webservices (End - End ML Solution)
 - [Smart home automation with Alexa or Google Assistant](#)
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