

MANOHAR PALANISAMY

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WORK EXPERIENCES

Senior Associate - Machine learning

Dec 2023 – Dec 2018

Sevasys Technologies

Bangalore

- Collaborate with data scientists to seamlessly integrate these models into existing systems and applications.
- Maintain the optimization of code for peak performance, ensuring the reliability of machine learning applications.
- Responsible for developing scalable and efficient software solutions, deploying machine learning models in production.
- Stay informed about best practices in software development and meticulously implement them within ML workflows as part of my roles and responsibilities.

Executive Software Developer

Dec 2018 – Jan 2017

QuantumLink Communications Pvt Ltd

Mumbai

- Developed a research-based web application called FieldSense. This project involved creating a Salesforce tracking system to monitor salesperson activities.
- Responsible for handling feature enhancement and *bug* fixing related to our products which also included understanding the requirements and preparing design documents and Impact Analysis.
- Worked on an email system with full knowledge of network and email protocols, ensuring timely delivery and quality, all in line with the client's quality standards.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.

TECHNICAL SKILLS

ML Model And Algorithms: Linear Regression, Logistic Regression, SVM, KNN, Naive Bayes, Decision Tree, Gradient Descent, SGD, minibatch GD, Adam etc.

Artificial Neural Networks: Perceptron, MLP, CNN, RNN, LSTM, GRU, BRNN, Autoencoders, GAN, Residual Net, Transformer

Coding Skills: Scripting and web development including Python (NumPy, scikit-learn) , Java, C, JSP, Servlets, Spring Framework, HTML5, CSS3, JavaScript, Ajax, jQuery, Bootstrap3, REST API, HTTP Server, Mail protocols and DNS server

Deep Learning Frameworks: TensorFlow, Keras, PyTorch

Data Manipulation: Pandas, NumPy

Data Visualization: Matplotlib, Seaborn

Natural Language Processing: NLTK (Natural Language Toolkit), spaCy

Model Evaluation: Cross-validation, ROC curve analysis, Confusion matrix, Grid search, Hyperparameter tuning

Deployment: Docker, Kubernetes, Vercel, CloudflareCDN

Cloud Platforms: AWS (Amazon SageMaker, EC2, S3)

Big Data Technologies: Apache Spark, Hadoop, MapReduce, Pig, Hive

Software Development: Agile methodology, Continuous Integration/Continuous Deployment (CI/CD), GitHub Actions

Database Management: MySQL, MongoDB

Version Control: Git

CERTIFICATIONS

Generative AI with Large Language Models [MAVEJZ9P9AV5]

Feb 2024 – Sep 2023

DeepLearning.AI And Amazon Web Services

Coursera.org

Deep Learning Specialization [EKJCGU5G2NXF]

Feb 2024 – July 2023

DeepLearning.AI

Coursera.org

Machine Learning Specialization [2CE3DQW8Z2NG]

Feb 2024 – Jun 2023

Stanford University And DeepLearning.AI

Coursera.org

Applied AI with DeepLearning [DRENBK43NW8]

Jan 2022 – Dec 2021

IBM

Coursera.org

PROJECTS

Image Classifier | *Python, FastAI, Render*

Live

- Developed an advanced image classifier using the ResNet50 neural network architecture from the Fastai deep learning library.
- Trained the model to classify images of Marvel Heroes into 12 distinct classes.
- Leveraged the powerful capabilities of Fastai for efficient training and model evaluation.
- Hosted the final trained model on Render, making it accessible via the web at <https://project.decodeai.in>

Automate to Extraction of Screen Shots from Photos | *Python, NumPy, Keras*

July 2018

- Trained a Convolutional Neural Network (CNN) model to automate the extraction of screen shot files from photo albums.
- Developed a Python script (extract.py) to execute the extraction process.
- Used Keras' data augmentation pipeline to train the model, which was trained on approximately 1200 images.

Distributed Deep Learning with Horovod and MPI | *Python, Horovod, MPI*

May 2018

- This project focuses on speeding up deep learning training by distributing the workload across multiple computers.
- It uses Horovod, a tool for distributed training, and MPI, a communication protocol. By doing this, we can train models faster and use computing resources more efficiently.
- Through this project, I learned how to use advanced tools to make deep learning training faster and more scalable.

PERSONAL BLOG

www.decodeai.in | *JAM Stack, Jekyll, Cloudflare, Vercel, GitHub, ImageKit.io, Umami Analytics, Giscus.app*

Live

- Regularly publish articles on machine learning, deep learning, and other technology-related topics.
- Cover a wide range of subjects, including tutorials, guides, and insights into the latest developments in the field.
- Provide valuable resources and insights to fellow tech enthusiasts and learners.
- Engage with readers through comments, discussions, and feedback.

PUBLICATION

Fake Account Eliminator

March 2015

National Conference on Engineering Applications for Developing Smart Cities - NCEADS

- This software is designed to find and remove fake accounts on platforms like Facebook, Gmail, and Twitter in India.
- It uses the UIDAI (Unique Identification Authority of India) as a key part of its operation.
- India has many fake users on social media and email, so this tool helps to identify and eliminate them. It enforces a rule where each person can only have one account, reducing problems for real users and the public.

EDUCATION

Bachelor of Engineering in Computer Science

May 2016

Dhirajlal Gandhi College of Technology, Anna University

Salem, Tamilnadu