**Sivaraj Manoharan**

Sharjah,UAE|+971-583001424

dsmsivaraj@gmail.com

**Summary**

Senior Data Science Consultant with extensive experience across the data science life-cycle, including data preparation, exploration, model development, and deployment. Expertise in time series forecasting, machine learning, deep learning, image processing, video processing, audio processing, and cloud deployment on AWS and Azure. Proficient in leveraging AI technologies such as Chat-GPT, Hugging Face, Vertex-AI, LLM, NLP, and RAG models to develop innovative solutions. Strong foundation in traditional computer vision methodologies and developing perception systems that integrate a variety of sensors. Expertise in designing robust computer vision systems for real-time perception in unmapped and unstructured environments.Strong documentation and communication skills.

**Experience**

**Masiv IT Solutions | Chennai,India**

**Senior Consultant - Data Science | 07/2020 - Till Date**

**Projects :**

1. **Stock AI Prediction and Trading**
2. **Crop Yield Prediction**

**Job Responsibility :**

· Developed AI models for stock market prediction and trading application.

· Implemented NLP techniques for sentiment analysis and text classification.

· Built neural network models using TensorFlow and PyTorch for sequence prediction.

· Utilized Hadoop and Spark for big data analysis.

· Created interactive dashboards and reports using Power BI.

· Deployed AI models to predict crop yields, improving forecast accuracy by 20%.

· Integrated predictive analytics into agricultural management software.

· Conducted extensive data preprocessing, feature engineering, and hyperparameter tuning.

**Okool Manpower Consultancy| Abudhabi, Abudhabi**

**Senior Consultant - AIML | 06/2017 - 06/2020**

**Projects :**

1. **Oil and Gas Drilling process for ADNOC:**
2. **Digital Transformation**

**Job Responsibility:**

· Led a team of data analysts to optimize oil and gas operations.

· Developed machine learning models for predictive maintenance and anomaly detection.

· Utilized AWS services for scalable data processing.

· Implemented CI/CD pipelines for continuous integration and deployment.

· Conducted NLP-based analysis using LLM techniques.

· Created interactive dashboards using Power BI for real-time insights.

**Tech Mahindra | Melbourne**

**Business Consultant | 06/2016 - 02/2017**

**Projects :**

1. **Sales and logistics analysis for Visy**

**Job Responsibility:**

· Conducted customer data analysis to enhance profitability.

· Developed predictive models for customer rebooking likelihood.

· Leveraged big data analytics for strategic business solutions.

· Utilized Power BI for data visualization and decision-making.

**Cognizant Technology Solution | Tamilnadu, Chennai**

**Senior Associate | 03/2012 - 04/2016**

**Projects :**

1. **Banking and financial Stock management for BNP Paribas**
2. **Healthcare and Insurance - Express Scripts Inc**
3. **Banking and financial Organization Ratings - S&P**

**Job Responsibility:**

· Developed applications for banking and financial stock management.

· Streamlined healthcare and insurance processes.

· Implemented robust testing frameworks to ensure application reliability.

**Mphasis | Tamilnadu, Chennai**

**Module Lead | 11/2009 - 02/2012**

**Projects :**

1. **Agriculture production and vendor management - Viterra, Canada**

**Job Responsibility:**

· Designed web services and maintained architecture documentation.

· Implemented automated testing protocols for increased code coverage.

· Led a team of software engineers, reducing development time by 40%.

**Hexaware Technologies | Tamilnadu, Chennai**

**Senior Software Engineer | 09/2007 - 11/2009**

**Projects :**

1. **HR and stock management - Pepsico**

**Job Responsibility:**

· Developed HR and stock management systems.

· Designed and implemented web and desktop applications using .NET technologies.

**Intek Systems PVT LTD| Male’, Maldives**

**Software Engineer | 03/2006 - 08/2007**

**Projects -**

1. **Resort backoffice and front office management - Fourseasons resorts**
2. **Tours and Travel - Yatch Tours**

**Job Responsibility:**

· Led design and implementation of resort management systems.

· Developed complex SQL queries and optimized database performance.

**Skills**

* **Programming**: Python, Shell Scripting,ASP.net,C#.net,Javascript,Node.js,Angular js,MVC,HTML,PHP
* **ML Libraries**: Pandas, NumPy, Sklearn, Matplotlib, Seaborn, Keras, TensorFlow, PyTorch, XGBoost, GeoPandas
* **Computer Vision:** Sensor calibration, object detection, semantic segmentation, stereo vision, LiDAR, radar, RGB and thermal cameras
* **Databases**: MS SQL Server, PostgreSQL, TimescaleDB, MongoDB
* **Big Data**: Hadoop, Spark, Cassandra, PySpark
* **Cloud**: AWS (EC2, S3, ECS, Lambda, CodePipeline)
* **Deployment**: Docker, Kubernetes, CI/CD
* **Visualization**: Power BI, Tableau
* **Project Management**: Agile, Scrum, JIRA
* **Robotics:** ROS1/ROS2, sensor fusion, multi-sensor calibration, perception systems

**Education**

**Sri Subramanya College Of Engg and Tech | Tamilnadu**

**BE - CSE | 05/2004**

**Personal Information**

**DOB : 27-Nov-1983**

**Marital Status : Married**

**Father’s Name : S.Manoharan**

**Gender : Male**