



## Anand Mahalingam Ph.D

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### Executive Synopsis:

*Artificial Intelligence | Machine Learning | Deep learning | NLP | Gen AI | Analytics*

Accomplished and visionary technology Leader with a proven track record of driving transformative outcomes through data-driven strategies. With over 20+ years of experience, consistently delivered exceptional results by leveraging Cloud, Advanced Analytics, Artificial Intelligence, Machine Learning, Deep learning, and Natural Language Processing (NLP) Product Development and Digital Transformation Efforts. Leading Technology Strategy, Architecture, Product Roadmap, Budgeting and Change Management. Setting up and developing high-performance CoE teams in AI/ML, attracting and developing top talent. Close Collaboration with CXO level internal and external customers in a global matrix organisation with distributed teams.

- **Strategic Data Leadership:** Experienced in providing strategic direction and executive oversight for data science initiatives, solution design, product development and overall delivery. Successfully aligned data science objectives with business goals, driving innovation, improving operational efficiency, and fostering a data-driven culture within organisations.
- **Thought Leadership:** Deeply knowledgeable in the latest trends, methodologies, and emerging technologies in data science, contributions to industry forums and conferences, including keynote talks, panel discussions, and articles to advance the field and foster collaboration within the data science community.

### Core Competencies

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|---------------------------|-----------------------|--------------------|
| ▪ Artificial Intelligence | ▪ Data Analytics      | ▪ Data Engineering |
| ▪ Machine Learning        | ▪ Deep Learning       | ▪ Data Governance  |
| ▪ NLP & Computer Vision   | ▪ Product Development | ▪ Responsible AI   |

### IT Skills

**Data Science:** Machine Learning, Deep Learning, Tensorflow, Keras, PyTorch, CNN, RCNN.  
**NLP:** NLTK, Spacy, Gensim, BERT, Transformers, OpenAI, Large Language Models LLMs, Langchain & ChatGPT. Text Analytics, Speech Analytics, Chabot (Diaglorflow, Rasa), Speech Recognition (Azure,GCP, Whisper)

**Computer Vision:** OpenCV, Image Classification, Object detection, semantic segmentation, facial recognition, facial expression analysis, Generative Adversarial Network(GAN), Text to Image.

**Programming Languages:** Python(Numpy, Pandas, Scipy, Scikit-learn, Matplotlib), ReactJs, NodeJs.

**Data Engineering:** MySql, PostgreSQL, Hadoop, Spark, DynamoDB, Data Warehousing, Data Lake, Snowflake, Databricks, Apache Airflow, Kafka, Apache nifi. MLOps: Amazon Sagemaker, H2O.

**Data Visualization:** Power BI, Qlikview, Tableau, Plotly Dash, seaborn, Bokeh, Looker

**CI/CD:** Gitlab, Bitbucket, Jenkins **Collaborating Tools:** JIRA, Confluence **Build:** Docker

**Cloud:** Amazon AWS, Google GCP, Microsoft Azure **OS:** Linux & Windows

### Work Experience – HDFC Life – Vice President Data Labs – Head of AI

Sep'21 -till date

- Spearheading the AI & Data Science team in HDFC Life, building digital platforms to simplify the user journeys during all the stages of the insurance process, sales, underwriting, policy issuance, customer service, maturity and claims settlement.
- Designed AI MedTech Application for early-stage underwriting trials to check customer health vitals through Non-invasive methods ( through remote facial video and extracting rPPG signals and building deep learning models) to measure Blood Pressure, Heartrate and stress levels.
- Implemented Advanced Customer Authentication and KYC Verification using deep learning based

- Facial Recognition algorithms, resulting in a 30% reduction in Turnaround time.
- Introduced computer vision technology to automate claims processing, reducing processing time by 50% and minimising fraud instances.
- Built Enterprise grade Email Classification and routing Algorithm using advanced NLP techniques handling 100 thousand emails per month.
- Architecture planning and development for NLP Engine, which supports 7 chatbots across HDFC Life ecosystems having a monthly volume of 3 million interactions.
- Led a team of solution Architects, Principal Data Scientists, Machine Learning & Deep learning engineers, Modelling specialists, Business Analysts, full stack developers, quality assurance and cloud engineers in developing innovative data-driven solutions.
- Collaborate with regulatory and compliance teams to ensure adherence to industry regulations and privacy standards in all data science initiatives.

#### **MyHealthcare Technologies – Vice President – Head of AI**

**Jun'19 – Aug'21**

- Led strategy, solution design, product development, and delivery for MyHealthCare AI, developing healthcare products connecting EMR, EHR, IPD, OPD EMR, and HIS systems.
- Enabled AI machine learning, deep learning features across the MyHealthcare Portfolio, including speech-to-text in EMR Doctor App & Radiology Portal, NLP, computer vision, chatbot, IoT, Business Intelligence and data analytics.
- Built enterprise-grade healthcare AI applications for Parkinson's Disease diagnosis using computer vision-based body pose estimation, facial expression analysis, bradykinesia, and tremor analysis.
- Implemented AI-enabled applications to facilitate remote patient monitoring, enabling real-time health vital tracking and delivering an early warning system for healthcare professionals.
- Developed a Clinical Decision support system powered by Advanced NLP techniques in suggesting the test required and treatment method from symptoms and diagnosis.
- Managed the end-to-end process from research and development, MVP, proof of concept, solutions architecture, product management, web and mobile (Android/iOS) development, integration, testing, and real-time implementations in the healthcare workflow.

#### **Previous Experience**

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|--------------------------------------------|--------------------------------------|
| ▪ Sep'17 – May'19 – Head Everteam India    | ▪ Sep'10-Apr'12- Sr Manager -TeleDNA |
| ▪ Jun'15-Aug'17- British Telecom-Unit Head | ▪ Sep'03-Aug'10- Manager – BSNL      |
| ▪ May'12-May15- DGM Data services – HGS    | ▪ May'00-Jun'03 – Asst Manager - MCL |

#### **Trainings & Certifications**

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|---------------------------------------------------------|-------------------------------------------------|
| ▪ Executive Data Science - John Hopkins University      | ▪ Strategic Innovation – University of Illinois |
| ▪ Digital Transformation – BCG & University of Virginia | ▪ Project Management Professional PMP           |
| ▪ AI for Medical Diagnosis – Deeplearning.AI            | ▪ GB SixSigma                                   |
| ▪ Generative AI with Large Language Models              | ▪ Certified Scrum Master CSM                    |
|                                                         | ▪ Certified DevOps Practitioner                 |
|                                                         | ▪ AWS Cloud Practitioner                        |

#### **Education**

- B.E Electrical & Electronics Engineering MS University
- Master of Business Administration
- PhD in Management – SASTRA University
- (PhD) in Computer Science -AMRITA University

#### **Conferences, Seminars & Technical Talks**

- Delivered Key Note presentations in Various AI Forums, Government Institutes and Universities.
- Delivered Talks and conducted workshops on Digital Transformation, AI and Data Analytics.
- Invited Member in 3AI Thought Leader Group -India's largest platform for AI & Analytics Leaders
- Core Committee Member in Govt Of India- TEC- Responsible AI Standards