MADHUSMITA SUBUDHI

Associate Director - Technology Leadership| Project Management | Advanced Analytics & Data Sciences

📞 +919916047477 @ madhu.cs019@gmail.com 🔗 www.linkedin.com/in/madhusmita-subudhi-892a9179
📍 Bengaluru, India

SUMMARY

A leader with 14 years of experience in Data Science, Gen AI, Deep Learning, Data, Cloud Transformation, Data Engineering, Hosting & Cloud Services specializing in steering large-scale analytical and data platforms.
I possess deep expertise in **AI/ML, Deep Learning, NLP, Gen-AI, Advanced Analytics, Digital Transformation, Cloud Computing, Data Analytics, Enterprise Cloud Data Lakes with AWS, Data Engineering with BIG Data, Hadoop, Spark, Python** with a primary focus on **Pharma and Healthcare sectors.**

My Areas of Expertise:
· Skilled in **AI/ML modeling, Gen-AI Strategy/Implementations.**
. Skilled in **Deep Learning, NLP, Data Science and Machine Learning** projects.
· Proficiency in **Cloud Computing across AWS**, Azure etc.
· Specialization in building **Enterprise Cloud Data Lakes on AWS.**
· Deep expertise in **Big Data, Hadoop, Spark and analytics tools.**
· Specialization in **Cloud Cost Financial Management** for AWS.
· Specialization in building **Enterprise Observability, Cloud Management Automation.**
· Expertise in **Hosting & Cloud Infrastructure services**.
· Competence in **Agile, DevOps** methodologies.
· Demonstrated ability in **Business Engagement and Thought Leadership**
· Developing **Product Roadmaps & overseeing Development**
· Crafting **Product Vision, Strategy, and Managing Stakeholders** effectively
· Ensuring **Product Delivery & providing Team Leadership**
. **Hiring, Resourcing, Performance Management, Resource Management,Technical Delivery Ownership.**
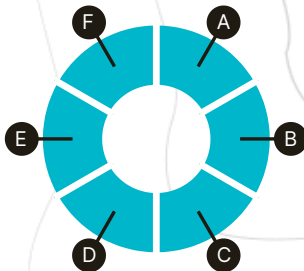
EXPERIENCE

Associate Director, Advanced Analytics & Data Science

Eli Lilly and Company   03/2024 - 06/2024   Bengaluru
Lead transformative AI/GENAI initiatives with a focus on strategy, innovation, collaboration, and delivering business value.

· Team Leadership: **Lead teams in Conversing, Monitoring, and Enterprise Data Science.**
· Strategic Development: Establish and strategize the formulation of AI and GenAI hub and capabilities.
· Agile Execution: Devise robust strategies and establish agile delivery models for successful project execution.
· Product Strategy, Architecting & Stakeholder Management: Develop product strategies, architecting solutions, ensure timely delivery, and manage stakeholders effectively.
· **LLM Implementation:** Implement various Large Language Models (LLM) on AWS and Azure for applications such as:
· **Image Generation with Stable Diffusion** for in-house digital asset creation.
· Development of multiple domain-specific **Q&A chatbots with Azure OpenAI, RAG implementation,** vector DBs, **reducing hallucination** through evidence-based responses.
· **Regulatory Documents Search capability with OPENAI LLM Models**
· Enterprise Observability: Enhance enterprise observability and proactive monitoring using Splunk ITSI.
· **NLP and Data Science Projects:** Lead NLP-based disease classification, manufacturing yield optimization and anamoly detection with Isolation Forest, and projects involving classification, clustering, sentiment analysis, etc.

MY TIME

- (A) Product Vision & Strategy
- (B) Product Delivery & Team Leadership
- (C) Agile Project Management
- (D) Stakeholder Management
- (E) People & Performance Management
- (F) Business Transformation

SKILLS

Strategic Delivery	People Management
Project Management	
Stakeholder Management	
Cloud Financial Management	Data Science/AI
Generative AI	Deep Learning
Machine Learning	Regression
Classification	Clustering	Hadoop
Spark	Enterprise Data Lake
Hosting Infrastructure	CNN	RNN
LSTM	BERT	Hosting Infrastructure
AWS/AZURE	Agile	Python	RAG
AWS Sagemaker	MLOps	CI/CD
Observability	Cloud Modernization

EDUCATION

M.Tech in Data Analytics & Machine Learning

Birla Institute of Technology and Science
2016 - 2018   GPA 8.5 / 10

EXPERIENCE

Sr. Team Leader, Advanced Analytics & Data Science, Hosting & Cloud Infrastructure

Eli Lilly and Company   05/2022 - 03/2024   Bengaluru

Lead four Agile Scrum teams with cross-functional capabilities, driving technology adoption, innovation, and business growth. Responsible for hiring, managing, and developing high-performing teams to deliver key initiatives in **Data Science, Cloud Management automation, Observability, Hosting, and Modernization for Digital Core.**

- Team Leadership: Strategize technology adoption, innovation, and resourcing needs. Own hiring, management, and development of high-performing teams.
- Integration of Solutions: Ensure successful integration of Data, Cloud, and AI/ML solutions within application development projects.
- **Data Science Leadership**: Lead Data Science team in enabling various AI modules/projects for the enterprise.
- Literature Review - Automating review of medical text using Deep Learning and BERT.
- **Enterprise Observability** Strategy: Led a 3-member team in modernizing observability stack, saving around $2 million through infrastructure and application monitoring.
- **Cloud Management Automation**: Led a 7-member team to enable self-service and streamline cloud service consumption**.**
- Foundation Architectures: Define enterprise foundation architectures for AWS and Azure, supporting multiple cloud projects.
- Global Infrastructure Services Leadership: Lead a 10-member team driving efforts in Global Infrastructure Services (Servers, Storage, Cloud), Data Center Management, and Cloud Modernization efforts like Home Drive to One Drive Migration saving around $2 million**.**

Senior Manager - Advanced Analytics and Data Sciences

Eli Lilly and Company   02/2021 - 04/2022   Bengaluru

Data Scientist, Cloud Product Owner and Cost Financial Manager

- **Led a 16-member team in developing various AI/ML, ingestion and consumption of data capabilities** for the **Enterprise Data Lake on AWS Cloud using AWS S3, Glue, RDS, Redshift**, **AppFlow**, **IAM** etc including establishing an Analytics Workbench with **AWS SageMaker**.
- Spearheaded the development of **MLOps pipeline in AWS SageMaker** and a solution for cloud ingestion, integration, and transformation for the AWS-based data lake.
- Managed cloud migration processes, optimized AWS infrastructure, and ensured compliance through configuration management and drift detection.
- Acted as **Cost Financial Manager, overseeing Cloud FinOps** and ensuring cost transparency for cloud services.
- Implemented cost management solutions and generated cost reports via QuickSight dashboards.
- Combined technical skills with strategic planning to drive successful cloud initiatives, following Agile scrum methodology for project execution.

Manager - Data Scientist - Advanced Analytics and Data Sciences

Eli Lilly and Company   09/2017 - 01/2021   Bengaluru

Worked with Lilly Manufacturing BU as a Data Scientist on a Six Sigma project to optimize yield and reduce wastage in Trulicity manufacturing using AI/ML techniques

- Established and qualified Big Data and analytics tools with the Enterprise Information and Platforms team.

Apps Developer (Big Data & ML)

UnitedHealth Group   05/2015 - 09/2017   Bengaluru

Big Data, Spark and Hadoop projects implementation. Machine Learning project implementation.

R & D Engineer (Big Data Engineer)

Nokia   10/2014 - 05/2015   Bengaluru

Hadoop, Spark project implementation for CEMOD project.

Senior Systems Engineer (Big Data Engineer)

Infosys   12/2011 - 10/2014   Bengaluru

Data Warehouse Migration (Client - Apple INC)

- Worked as a developer in migrating iTunes database from Teradata to **Hive**(**Hadoop** ecosystem) using **Oozie** scheduler etc.

EDUCATION

B.Tech in Computer Science

Biju Patnaik University of Technology

2007 - 2011   GPA 8.7 / 10

CERTIFICATION

Situational Leadership II

Blanchard

Develop Your Leadership Potential

Dale Carnegie

Professional Scrum Product Owner

Scrum.org

ITIL Foundation Certificate in IT

AXELOS Global Best Practice

AWARDS

- ☆ Best Project Award for "Hosting & Cloud Services" - Eli Lilly
- ☆ Star Performer - Enterprise Data program - Eli Lilly
- ☆ Ideathon Winner on topic "Next Gen Manufacturing" using AI/ML - Eli Lilly
- ☆ Aquamarine Award for Top Performer - UnitedHealth Group