# SAI PRIYADARSHAN CINDULA

priyadarshan.iitk@gmail.com | +91 8341346818 | https://www.linkedin.com/in/priyadarshancs

## VICE PRESIDENT OF ENGINEERING & DATA SCIENCE

*An accomplished senior director driving excellence in engineering and data science domains, delivering impactful solutions to drive business growth.*

## EXECUTIVE SUMMARY

Highly Accomplished & Visionary Technology Leader with **over 15 years of experience spanning software engineering, data science, and machine learning domains.** Strategic thinker, adept at aligning business objectives with **cutting-edge technological solutions**, **leveraging AI/ML technologies**, resulting in significant efficiency improvements and enhanced predictive modelling accuracy. Proven track record of **spearheading complex projects** from conception to execution, optimizing processes, fostering a culture of excellence and collaboration and delivering high-impact results. **Strategic leader,** expert in inspiring and motivating high-performing engineering teams to drive excellence in high-quality software development and continuous improvement initiatives. Strong communicator, **relationship builder, and agile advocate,** consistently achieving business objectives and contributing to sustainable growth. **MBA from INSEAD and B.Tech. in Computer Science from IIT, Kanpur** complemented by **certifications in NLP/ML engineering**. Exceptional communication, problem-solving and decision-making skills.

### *SIGNATURE SKILLS INCLUDE:*

Strategic Direction & Vision ~ Technical Leadership ~ Software Development Lifecycle ~ Engineering Excellence ~ Project & Delivery Management ~ Agile Transformation ~ Solution Architecture ~ Product Development ~ Data Science ~ Machine Learning ~ Bid Data Technologies ~ Natural Language Processing ~ Cloud Computing ~ Microservices Architecture ~ Scalability Optimization ~ Technology Innovation & Adoption ~ CI/CD Pipeline ~ Quality Improvement ~ Operational Efficiency ~ Client Engagement & Relationship Management ~ Team Building, Coaching & Leadership ~ Stakeholders Management ~ Global Cross-functional Collaboration

## TECHNICAL EXPERTISE

- ❖ **Programming** : Python, R, Java
- ❖ **Machine Learning** : GenAI, Scikit-learn, TensorFlow, PyTorch
- ❖ **Big Data Technologies** : Hadoop, Spark
- ❖ **Data Visualization** : Matplotlib, Seaborn, Tableau
- ❖ **Database Systems** : SQL, MongoDB, CassandraDB
- ❖ **Tools & Frameworks** : Jupyter, Git, Docker

## CAREER SYNOPSIS & MILESTONES

### Goldman Sachs, Hyderabad| VICE PRESIDENT — Since Jun'23

*Responsible for **strategic leadership** to align teams with company objectives, **managing software engineering, data science, and ML teams** for effective product development, driving innovation by identifying emerging technologies, ensuring cross-functional collaboration, managing risks, budgets, and resources effectively, and nurturing talent development. Additionally, overseeing quality assurance and **stakeholder management** to maintain product quality and secure support for initiatives.*

- ❖ **Streamlined Audit Processes with Custom Software Tools:** Developed Python-based software tools (CDA, CET, OBT methods) to streamline audit processes in compliance with SOX regulations, utilizing containerization and CI/CD practices, enhancing efficiency and compliance.
- ❖ **Innovated ML Solutions Driving Business Value:** Led ML projects including QnA bots, summarizers, and chatbots, leveraging advanced techniques like LLMs (lama2) Lang chain and PEFT, resulting in innovative solutions that improved user experience and business outcomes.
- ❖ **Transformed Data into Actionable Insights:** Led PDF OCR extraction projects using pdf readers, paddleocr, and pandas, converting raw data into insightful information sheets, facilitating informed decision-making and operational efficiency.
- ❖ **Empowered Team to Deliver Cutting-Edge ML Solutions:** Led a team of data scientists and ML engineers, driving the development and deployment of innovative ML solutions, fostering collaboration and achieving project objectives effectively.
- ❖ **Optimized Data Processing Efficiency with Robust Pipelines:** Implemented robust data pipelines, enhancing data processing efficiency by 30%, enabling faster insights and decision-making processes.
- ❖ **Improved Predictive Modeling Accuracy Through Advanced Analytics:** Pioneered the adoption of advanced analytics techniques, resulting in a significant 25% increase in predictive modeling accuracy, driving better business insights and decision-making.

### Unify, Hyderabad| ENGINEERING MANAGER — Oct'21-Jun'23

*Oversaw teams of engineers, providing leadership, guidance, and technical expertise. **Managed project execution**, ensuring goals were met within scope, budget, and timelines. Fostered collaboration across departments, assessed team performance, and allocated resources effectively. **Mitigated risks**, communicated with stakeholders, and drove continuous improvement within teams to deliver successful engineering outcomes.*

- ❖ **Reduced Equipment Downtime Through Predictive Maintenance:** Developed and deployed machine learning models for predictive maintenance, resulting in a significant 20% reduction in equipment downtime, optimizing operational efficiency.

- ❖ **Facilitated Internal Training on Machine Learning Best Practices:** Conducted comprehensive training sessions on machine learning concepts and best practices for internal teams, empowering colleagues with valuable knowledge and skills.
- ❖ **Oversaw Agile Development Cycle for High-Performing Team:** Led a team of 20 members through the entire development cycle, from gathering design requirements to agile development and delivery, ensuring alignment with organizational objectives and fostering a culture of excellence.
- ❖ **Advanced Computer Vision Techniques for Object Detection:** Applied advanced AI/ML techniques in Computer Vision, specifically CNN-based object detection, employing data engineering, transfer learning, and F-measure analysis to deliver accurate solutions.
- ❖ **Implemented Face Detection and Recognition Project:** Utilized tools such as TensorFlow, Keras, and PyTorch to develop a project focused on face detection and occlusion-free recognition, deploying on Azure/AWS and incorporating a user interface developed in ReactJS, enhancing usability and performance.

| Alation, Hyderabad| LEAD ENGINEER | Jun'19-Oct'21 |
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*Spearheaded technical leadership in AI/ML technologies, oversaw project management using Agile methodologies, fostered team collaboration, provided mentorship, addressed technical challenges, facilitated clear communication, and promoted continuous improvement within the team. Involved in guiding the development and **delivery of AI/ML solutions** while ensuring efficient project execution and team productivity.*

- ❖ **Enhanced User Engagement Through Recommendation System**: Played a pivotal role in developing a recommendation system that boosted user engagement by 15%.
- ❖ **Implemented Sentiment Analysis for Customer Reviews:** Executed the implementation of natural language processing algorithms to conduct sentiment analysis within customer reviews, enhancing understanding and insights.
- ❖ **Integrated Machine Learning Solutions into Customer-Facing Applications:** Collaborated with product teams to integrate machine learning solutions into customer-facing applications, enhancing user experience and functionality.
- ❖ **Applied AI/ML Techniques in Computer Vision:** Utilized advanced AI/ML techniques in computer vision, employing CBIR, OpenCV, SURF, LSH, and BDB (Berkeley) to drive innovative solutions.
- ❖ **Engineered Python-based REST APIs for Image Data:** Developed Python-based REST APIs and CRUD microservice features to engineer image data, train models, and conduct recognition tests for continuous model enhancements. Facilitated deployment using Azure DevOps and Azure Kubernetes Service.
- ❖ **Led Refactoring of Microservices for Enhanced Data Governance:** Spearheaded the refactoring of QLI microservices, integrating query logs from client databases' metadata into Alation Postgres for improved data governance, lineage, and maintenance.
- ❖ **Orchestrated CI/CD Processes for Seamless Deployment:** Led the implementation of CI/CD processes, including dockerization and automated deployment using Terraform, and orchestrated deployments with Kubernetes for the QLI, ensuring efficient and reliable software delivery.

## PREVIOUS EXPERIENCES

| Model N, Hyderabad| PMTS | May'17-May'19 |
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- ❖ **Spearheaded revenue optimization engine** features for prominent clients like Pfizer, Moderna, and Novartis as part of the ModelN project. Architected and **deployed scalable software solutions** for efficient data processing and analysis. Recognized with the **Employee of the Year Award** for exceptional contributions to project success, at Model N.
- ❖ **Applied AI/ML techniques in Computer Vision** for anomalous detection in home security systems, capturing, processing, storing, and notifying upon detecting any movement or unfamiliar faces.

| Next Education, Hyderabad| Technical Lead | May'15-May'17 |
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- ❖ Contributed to the **creation of web-based applications**, including Content Management Systems (CMS), utilizing Java, Python, D3.js, and OrientDB. Engaged in **Speech Recognition and Summarizer development** using ML on GCP and Linux.

| Info Edge, Delhi NCR| SSE | May'11-May'15 |
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- ❖ **Implemented a face recognition feature** for Search, JeevanSathi using image processing techniques such as CBIR, OpenCV, SURF, LSH, and BDB (Berkeley). Received the **Star Employee Award** and emerged as a Hackathon Winner at Info Edge.
- ❖ **Developed an Automatic Speech Transcription (AST) system** to remove disfluencies using CRF supervised learning, achieving 85% recall and 95% precision with C/C++.

| BGT, Chennai| SSE | Jul'09-Apr'11 |
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- ❖ **Created algorithms** to determine job role placement and suggest appropriate salaries. Conducted **NLP text analytics**, including bag-of-words matching and scoring. Demonstrated that CRF models outperformed HMM in job matching engines, **boosting the F-measure score by 30%.**

## ACADEMICS & CERTIFICATIONS

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| ❖ **MBA (Dist.) in General**, INSEAD, Fontainebleau, France | 2015 |
| ❖ **B.Tech. in Computer Science**, IIT, Kanpur, India | 2009 |
| ❖ **Certified NLP/ML Engineer**, Coursera, Prof. Andrew Ng | 2017 |
| ❖ **Certificate of Business Acumen**, INSEAD | 2015 |