

CONTACT

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SKILLS

Senior Leadership

Technology Development

Product & Solution Innovation

Tech Strategy & Roadmap Development

Global Team Management

TECH SKILLS

AI / Machine Learning Algorithms

Large Scale Language Modelling approaches applied to AIOps

Data Engineering Pipelines

AI Full Stack Design and Solutioning

Cloud Native Kubernetes, Container Technologies

OpenShift Cloud Platform

Pratibha Moogi

DEPT MANAGER, STSM, IBM RESEARCH



SUMMARY

A senior leader, with PhD (USA), Masters (IIT Kanpur) with 20+ years of experience in the space of developing technology portfolio for various product and technology companies. Experienced with building ground up research & development teams & nurturing talent, setting up strategic technology directions, with the execution of mission and vision in alignment with business strategy. Worked in variety of use-case scenarios in the Cloud & AI Technology space. Well versed with multi-modal AI & ML approaches applied to end products & solutions.

EXPERIENCE

SENIOR MANAGER

Sep 2021 - Present

IBM Research Lab

- Managing a department comprised of senior research scientists and first-line managers
- Areas of focus Hybrid Cloud & AI technology development and innovations
- Managed Research Teams & associated Tech Portfolios comprised of AI for IT Automation - Full Stack AI Health Monitoring (Tech for Cloud & AI Observability, AIOps), App Modernization (AI for Code refactoring & Code Refactoring, Code Summarisation), MultiCloud & Edge Platform Risks & Compliance, Sustainable Computing (Energy Aware Scheduling on GPUs, Optimization Choices for AI Workloads) etc.
- Global Research Sub-Theme leader responsible for shaping up global research agenda and directions in alignment with Business Strategy
- Responsible for Research Lab Staffing
- Responsible for driving Tech Innovation & Business Impact via delivering Tech Innovation to key IBM Products & Platforms - watsonx.ai, Instana, Turbonomics, OpenShift Cluster Monitoring and Logging Operators
- E2E Observability enablement in AI model Inference serving engines - tgis, vllm

Director

Aug 2018 - Sep 2020

247.ai Data Science Group

- Senior leader with responsibilities to setup Data Science Group
- Led Technology Development in the area of Agent Assist, Customer Journey Analytics. Led Efforts in building Smart Response system, User Intent Detection, Classification, and Routing it to right skill smart responses.

Part Head, R&D Manager

Jul 2011 - Jul 2018

Samsung R&D Centre

- Led Technology Solutions development for Mobile Products
- Developed product ready approaches for Audio & Vision based solutions e.g. Affective Computing (Multimodal Emotion Recognition from text, audio, and video), Melody based Audio Fingerprinting for Search & Retrieval, Fingerprint & IRIS images based biometric recognition, Image based product search, Face Clustering and Recognition, Image Quality

Observability 

Stack for Cloud

Workloads

Health

Monitoring

Development 

Env : Github,

PyTorch, CICD

Pipelines, Visual

Code Studio,

Golang

Enhancement solutions for Mobile Gallery - back light removal, haze removal etc.

- Led e2e end Commercialisation efforts for Galaxy S6/S7 mobile Flagship features based on the above Tech assets.

Package Owner

Jun 2008 - Jul 2011

Nokia R&D Centre

- Led R&D Team to design & developed optimized Audio Algorithms for Nokia Flagship products
- Developed Audio 3D Positional Audio algorithms and solutions for mobile audio solution
- Responsible for bringing product maturity on performance of technology assets - audio and vision based algorithms

Audio Architect

May 2004 - Jun 2008

Texas Instruments

- Responsible for bringing in innovation and optimised performance on Audio Algorithms, Audio Compression Standards - EVRC, Noise Reduction Algorithms
- Led OMAP and TI DSP optimizations for Audio Algorithms
- Led Audio Standardization Activity on Voice Activity Detection at ETSI standardization body on behalf of Global TI speech experts group

International Fellow

Mar 2003 - Feb 2004

SRI, International, Menlo Park, California

- Post Doctoral Fellow @ SRI International, worked on Robust Speech Recognition Technology development
- Addressed robust feature engineering and its integration with ASR solutions
- Explored and Investigated Voice Activity Detection, Speaker Identification, and Acoustic Modelling approaches based on Neural Network and GMM modelling paradigms

EDUCATION

PhD

Aug 1998 - Dec 2003

Oregon Graduate Institute, OHSU, Portland

Areas o Research focus being Automatic Speech Recognition, Noise Robust Acoustic Modelling, Speaker Identification, Voice Activity Detection etc.

Masters of Technology (MTech)

Feb 1995 - Mar 1997

Indian Institute of Technology, Kanpur

Specialization in Digital Signal Processing

Bachelors of Technology (BTech)

Jun 1991 - May 1995

Govt. Engineering College, Jabalpur

Electrical Engineering Dept

PATENTS & PUBLICATIONS

Patents

Jul 2000 - Present

- System and Associated Methods for Augmentation of Logs for Efficient AIOps features, P202104113, 2021

- System and Method for application logs flow control using policy, P202104592, 2021
- A system and method for log message size reduction by generating code book during source code analysis and build time, P202203224, 2022
- Method for on-the-fly learning of facial artifacts for facial emotion recognition
- Feature descriptor for robust facial expression recognition
- A method and system for robust object tracking using particle filter framework
- Noise pre-processor for enhanced variable rate speech codec
- Multistream network feature processing for a distributed speech recognition system
- Ref - <https://patents.google.com/?inventor=Moogi+PRATIBHA> & [https://patents.google.com/patent/US20110153326A1/en?inventor=Jain+PRATIBHA&oq=inventor:\(Jain+PRATIBHA\)](https://patents.google.com/patent/US20110153326A1/en?inventor=Jain+PRATIBHA&oq=inventor:(Jain+PRATIBHA))

Publications

- Improved feature representation for robust facial action unit detection, Facial Expression Recognition (FER), 2017
- A fast face clustering method for indexing applications on mobile phones, ICASSP, 2017
- A progressive method of face clustering for mobile phone applications, IEEE Signal Processing, 2016
- Neutral face classification using personalized appearance models for fast and robust emotion detection, IEEE Transactions, 2015
- Pushing the envelope-aside [speech recognition], [IEEE Signal Processing Magazine](#), 2005
- Beyond a single critical-band in TRAP based ASR, INTERSPEECH, 2003
- Qualcomm-ICSI-OGI features for ASR, INTERSPEECH, 2002
- Feature extraction using non-linear transformation for robust speech recognition on the Aurora database, ICASSP, 2000

open source contributions

Technology Architect

<https://github.com/PRATIBHA-Moogi/caikit>

<https://github.com/pmoogi-redhat/logloss-benchmarking>

CERTIFICATION

Women in Tech, Executive Leadership Training IIM, Bangalore

2023-12-15

Executive Senior Leadership Training program based on a nomination and selection process applied by IBM and IIMB.

TLC | The Leadership Consortium | Senior Leadership Training HBS

2021-05-04

Nominated for TLC led training. Here TLC delivers a bespoke curriculum of business and leadership skills. Dynamic class sessions are taught real-time by a hand-picked team of Harvard Business School faculty

Agile Project Management Training Nokia

2009-04-03

Taught about what is Agile SW development, ART Planning best practices

OTHER ACCOMPLISHMENTS

IBM-AI Day Event - Generative AI Technology directions Dec 2024 - Dec 2024
IISc

Faculty Development Program (FDP) Nov 2024 - Nov 2024
MSRIT, Bangalore

Global A-level Research Accomplishments 2021 - 2024
2021-2024
IBM Research

Open Source Contributions 2021 - 2023
IBM Research

Senate Member - 2022 - Present
<https://www.iiits.ac.in/home/governance/senate/>
IIIT SriCity

The Winners Of AIM Women In AI Leadership Awards 2021
<https://analyticsindiamag.com/meet-the-winners-of-aim-women-in-ai-leadership-awards-2021/>

Invited Talks 2019
<https://vgs-it.fit.vutbr.cz>