



Dr. Pinaki Bhaskar

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Male, Married, Indian, DOB: 2nd September 1982

Summary

Experienced Engineering Manager with **over 9 years of leadership** in Machine Learning teams, aiming to apply expertise in driving innovation and delivering impactful solutions within dynamic organizations.

Specialized in research and application domains including Generative AI (VLM and LLM), Knowledge Graph (KG), and NLP. Skilled in ML, DL, GenAI, NLP, Tensorflow, Python, Java, SQL, and more.

Industrial Experience

Engineering Manager & Architect, Machine Learning, GenAI July 2015 – till date

Advanced Technology Lab (ATL), Advance Research Group (ARG), CTO Team, Samsung R&D Institute India – Bangalore (SRI-B)

- **Managing the Lab** (ATL) while serving as architect, technical lead, and reporting manager. Currently, overseeing multiple teams and projects:
 - Leading a team to develop a Vision-Language Model (VLM) for Semantic Search and other Gallery features, using VLM as a unified backbone.
 - Collaborating with teams across Samsung Research (SR) Seoul, Mobile Experience (MX) division in Suwon, and SRI-B to commercialize these features in the Galaxy S24 series.
 - Leading the development of a Multilingual Machine Translation engine for Search.
- Researching technology evolution among competitors and market trends to **define strategic** directions for ATL, ARG, CTO team, and Samsung.
- **Mentoring** the team to adopt the latest ML technologies and AI solutions.
- Actively involved in **several key roles**, including **organising** and/or **mentoring in technical programs** such as Solve for Tomorrow, sponsored M.Tech., hackathons, and trainings. Additionally, serve as a **reviewer** for global projects and proposals, contribute to recruitment efforts, and participate in the People Task Force (PTF).
- In the past led the team to complete several projects and achievements:
 - ✓ Led a team to develop and commercialize an On-device Personalized Knowledge Graph (PKG), in collaboration with the Big Data Center (BDC) at Samsung, starting from the Galaxy S21 series. This project received the world wide **Best Project award** in Samsung in 2021 from Mobile R&D Office, Korea.
 - ✓ Led the development of Natural Expression Generation (NEG) for Social Robots.

Academic Experience

Member of Board of Studies (BoS)

Jan 2024 - till date

Dept. of Computer Science & Engineering, NIT, Meghalaya, India

Postdoctoral Research Fellow

May 2014 – April 2015

Institute of Information and Telematics (IIT) - National Research Council [Consiglio Nazionale delle Ricerche] (CNR), Pisa, Italy

- Funded by **ERCIM** (<http://www.ercim.eu/>), France
- Research Work: **Biomedical Question Answering**
 - Technologies used: Information Retrieval (IR), Information Extraction (IE), NLP and Knowledge Graph (KG)

Guest Faculty

July 2011 – April 2014

Dept. of Computer Science & Engineering, Jadavpur University, Kolkata, India

Education

Doctor of Philosophy (Ph.D.) in Engineering

2014

Dept. of Computer Science & Engineering, Jadavpur University, Kolkata, India~ Thesis title: “**Answering Questions from Multiple Documents – the Role of Multi-document Summarization**”

Master of Technology (M. Tech.) in Computer Technology

2010

Dept. of Computer Science & Engineering, Jadavpur University, Kolkata, India~ Thesis title: “**A Query Focused Language Independent Multi Document Summarizer and Ad-hoc Monolingual Information Retrieval for English and Bengali**”

Certification (Offline)

CommUP Plus: Leadership Communication

2022

Samsung R&D Institute India, Bangalore (SRI-B)

Achievement / Recognition

- ❖ **6 Patents:** Global (Including US) - 3, Indian - 3
- ❖ **36 Publications:** Book - 1, Book Chapter - 2, Journal - 3, Conference - 30
- ❖ [External-National] Recognized as “**Technical Role Model - AI & BDA** (Big Data Analysis)” by [Zinnov Awards](#) in 2022
- ❖ [Internal-Global] Received **Best Project award** for “On-device User-centric Knowledge Graph” project in Mobile Developer Conference 2021 from Mobile R&D Office, Korea
- ❖ [Internal-Regional] Received Samsung's “**The ACE Employee**” Annual award in 2021-2022
- ❖ [Internal-Regional] Received **Samsung Excellence Award** - Star of the Quarter (**Lead by Example**), in Q3 2021
- ❖ [Internal-Regional] Received **Samsung Citizen Award** - Highflier in 2019