

SENTHIL KUMAR

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- An ML Engineer capable of building NLP applications leveraging deep learning models
- An AWS Cloud Engineer specialized in developing & deploying event-driven Serverless architectures
- A Generative AI Engineer immersed in the development of agentic apps and LLM api-powered products
- Total Exp: 14 years; Data Science & NLP Exp: 10/14 years; Cloud Engineering: 4/14 years

WORK EXPERIENCE

Lead ML Engineer, Toyota Connected India **Jul 2022 – Present**

- Build BackEnd data pipelines and NLP applications in AWS cloud to aid Connected Car customers
- Published 4 articles in TCIN medium channel
- Presented a seminar on Serverless Python App in PyCon2023

Lead Data Scientist, Ford, Analytics Team **May 2018 – Jun 2022**

- A hands-on **data science developer** who co-developed with NLP experts from the US team
- Leveraged open source models for inferencing in dockerized NLP applications

Assistant Manager, LatentView Analytics (LV) **Apr 2014 – Apr 2018**

- Roles I played: **NLP Data Scientist, Project Delivery Manager**
- Responsible for project scoping and accountable for the delivery of Social Media Analytics projects of 8+ members

Lead Analyst, Beroe Inc **Jul 2010 – Dec 2013**

- Produce Market Research reports on how to procure indirect spend categories

CAREER PROGRESSION & PERFORMANCE AWARDS

Company	Awards / Recognitions
Toyota	• Employee of the Month (Sep 2023)
	• <u>Hackathon Team Winner (Mar 2023)</u>
	• <u>2nd Place – AWS India Manufacturing Teams Hackathon 2024</u>
	• <u>DriveDesign'25 Winner</u>
Ford	• Asia-Pacific Recognition Award (May 2019)
LatentView	• Encore Award (Jul–Sep 2016 Quarter)
Beroe	• Knowledge Contributor Award (twice, 2013)

- 🍷 Curious what have I been cooking lately? 🔗 [LinkedIn Featured Section](#)

EDUCATION

- Bachelors in Engg - Electronics - 8.6 CGPA | Madras Institute of Technology, 2006 - 2010
- State Topper in Physical Science paper (50/50) 2006 TN Engineering Entrance Exam
- 12th Grade - 95% | 10th Grade - 92%

TECHNICAL UPSKILLING

- Course on Modern AI Agents, O'Reilly, Aug'25
- A Short Course on Building Apps with Anthropic's MCP, DeepLearning.AI, Jun'25
- A Proctored Exam on Git, Linux Foundation, Jan'25
- DevOps on AWS Specialization(4 courses), Coursera-AWS, Oct'24
- Generative AI with LLMs, Coursera-Deeplearning.ai, Nov'23
- DeepLearning Specialization(5 courses), Coursera-Deeplearning.ai, Dec'18 - May'19
- 🍷 Curious to know my full list? - [LinkedIn Courses Section](#)

Skills

- **Languages**
 - Python, SQL(basics), Markdown, Bash/Shell Scripting
 - **Python Libraries**
 - Pandas, SpaCy, Re (Regular Expressions), Transformers, Sklearn, PyTorch, OpenAI, LangChain
 - **Tools**
 - Git, AWS CLI, Docker, Python Env Management Tools, AWS Serverless, OpenAI API, Prompt Engineering
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KEY PROJECTS

Learn by Blogging | 35+ Articles | 2020 - Present |

[Blog Link](#)

- Have been passionately learning and writing about coding, data science and ML since 2020 [here](#)
 - Cross-post 5+ of those articles in Medium (including Toyota Medium Channel): [Medium Link](#)
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Built a Agentic Chat Application | 2024

- Led & contributed to the development of an Agentic Chat application that leverages GPT 4o model
 - The chat app integrates with tools and databases to provide intelligent responses to user queries.
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Built a GenAI Platform (X) with a Suite of Applications in AWS | 2024

- Led the development of a unified platform to derive actionable insights from text data
 - Key products built via LLM-powered Pipelines:
 - xWorkFlow - Workflow automation tool with a YAML-based prompt engineering system for LLM chaining.
 - xChat - Secure answer engine for customer data interaction
 - xCall Center Solutions – Call center dashboard showcasing metrics from agent-customer interactions
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Serverless LLM-powered Classification Application | 2023

- Leveraged OpenAI paid models (such as GPT-4) to perform hierarchical text classification
 - Utilised AWS Lambda functions to throttle the OpenAI API calls at scale
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Contact Center Dashboard - A Speech2Text Dashboard Application in AWS | 2022-23

- Architected a Speech-to-Text dashboard in AWS
 - Powered by open-source ML models for speaker diarization and speech-to-text processing
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BERT Fine-tuned Aspect-based Sentiment Analysis Pipeline | 2020-21

[More Details](#)

- Built a ML Classification Pipeline to convert customer comments into Aspect and Sentiment pairs
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Personally Identifiable Information (PII) Detection using Named Entity Recognition (NER) | 2020-21

[More Details](#)

- Anonymized PII in text data by building a NER system using **RoBerta Fine-tuned Transformer model**
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