

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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Produce Market Research reports on how to procure indirect spend categories	
<h2>CAREER PROGRESSION & PERFORMANCE AWARDS</h2>	
Company	Awards / Recognitions
Toyota	<ul style="list-style-type: none">• Employee of the Month (Sep 2023)• Hackathon Team Winner (Mar 2023)• 2nd Place – AWS India Manufacturing Teams Hackathon 2024• DriveDesign'25 Winner
Ford	<ul style="list-style-type: none">• Asia-Pacific Recognition Award (May 2019)
LatentView	<ul style="list-style-type: none">• Encore Award (Jul–Sep 2016 Quarter)
Beroe	<ul style="list-style-type: none">• Knowledge Contributor Award (twice, 2013)
<ul style="list-style-type: none">• 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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