

Senthil Kumar

Data Scientist | NLP Practitioner |
Espouses Python Best Practices

Competent in the use of ML and DL for NLP tasks,
Proficient in Python-Data Science Project Execution,
Perpetual learner of the art of effective communication



senthilkumar.m1901@gmail.com ✉

+91 984-186-9609 📞

Chennai, India 📍

linkedin.com/in/senthilkumarm1901 in

github.com/senthilkumarm1901 🐙

WORK EXPERIENCE

Deputy Manager/ Snr Data Scientist Ford Analytics Division - ML CoE Team

05/2018 - Present

Chennai, India

Roles

- **Individual contributor/developer:** Employ state-of-the-art/best-suited ML and DL techniques for NLP Applications
- **Co-develop end-to-end NLP applications:** from data acquisition, cleaning, labeling, preprocessing, model development till deployment
- **Python/NLP Trainer | Interviewer of NLP Candidates across Analytics teams**

Assistant Manager LatentView Analytics

04/2014 - 04/2018

Chennai, India

Roles

- **Individual contributor [2.5 yrs] | Team Manager [1.5 yrs] | Social Media Analysis | NLP Projects**
- **LinkedIn Recommendation Excerpt:** "... and extraordinary dedication all contributed significantly to growing our analytic practice - in size, output and level of insights achieved..." - Client stakeholder from a F100 Tech Major
- **LinkedIn Recommendation Excerpt:** "...Sincere, driven, articulate and utterly committed ... His communication skills have been exemplary, always crystal clear ..." - My Reporting Manager

Senior Consultant Capgemini

01/2014 - 03/2014

Bangalore, India

Lead Analyst

Beroe Inc - A Procurement Intelligence Firm

07/2010 - 12/2013

Chennai, India

COURSE WORK

Deeplearning.ai-Coursera 5-course Specialization
(11/2018 - 05/2019) [🔗](#)

GCP Big Data & ML Fundamentals (03/2021 - 04/2021) [🔗](#)

EDUCATION

B.E - Electronics & Communication - 8.6 CGPA
Madras Institute of Technology, Chennai

2006 - 2010

Twelfth Grade - 95% | Tenth Grade - 92%
Sri Sankara Vidyalaya School, Chennai

KEY RECENT EFFORTS

BERT Fine-tuned Aspect-based
Sentiment Analysis Pipeline

Recognize/Replace Personally
Identifiable Information using
Transformer-powered NER

Spark-optimized Spacy Pipeline
for Text Cleaning and Metadata
Creation

Transfer-learning powered Text
clustering | Topic Modeling

TECHNICAL SKILLS

Traditional NLP Techniques

Text data wrangling/cleaning (using regex, lemma, stemming, etc.,) ~ Embedding (TFIDF, W2V, Glove, etc.,), ~ Topic Modeling ~ Clustering

Modern DL-based NLP Techniques

BERT and other transformer-based Language models ~ Text classification including Sentiment Analysis ~ Named Entity Recognition ~ Semantic Search ~ TL-powered Clustering

NLP Libraries I - Spacy

Spacy for tokenization, rules-based matching, linguistic features, custom-model training using GPU and transformers

NLP Libraries II - PyTorch & its Ecosystem

Native PyTorch modelling, **Huggingface Transformers** (built on top of Pytorch pipeline), **Sentence-transformers**

NLP Libraries III - For Traditional NLP Needs

GenSim and **FastText** for Topic Modeling, Word Representations, efficient Text Classification

Other Data Science Libraries

Extensive use of **Sklearn**, **Pandas**, **Numpy** and **Altair** (for visualization) ~ basics of **PySpark** ~ **multiprocessing** ~ **Fastapi** for REST API and **Streamlit** for prototype UI

GitHub

Code versioning, code reviews, pull request driven co-development with fellow developers

ML Project Management Best Practices

Set up of **WSL/ Linux OS** ~ Virtual environments extensively used - **Poetry**, **venv** and **conda** ~ **Pytests** ~ Leverage **Docker** for GPU-centric development ~ Basics of **Kubernetes** to deploy REST APIs or UIs

HONORS

Promoted from Snr Analyst to Deputy Mgr (11/2019)
After 1.5 years of joining Ford

Ford Asia-Pacific Recognition Award (05/2019)
Successful spearheading of a Project

Promoted from Snr Analyst to Assistant Mgr (10/2016)
After 2.5 years of joining LatentView

LatentView Analytics - Encore Award
For company-wide best performance for Jul-Sep 2016 Quarter

Promoted twice in Beroe
During my 3.5 year stint at this first company

Scored centum in Physical Science Engg Entrance Exam
1 of 7 individuals from Tamil Nadu to score centum in 2006