Senthil Kumar

Data Scientist | NLP Practitioner |
Espouses Python Best Practices

Competent in the use of ML and DL for NLP tasks,
Proficient in the execution of Python Data Science Projects,
Lifelong learner in the art of effective communication

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Chennai, India 📍

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github.com/senthilkumarm1901

WORK EXPERIENCE

Deputy Manager | Senior 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 SKILLS

Rules, Linguistic & Statistical NLP

Deep Learning for NLP

Python Best Practices

Machine Learning Projects Execution

KEY PROJECTS

BERT Fine-tuned Sequence Classification
Aspect-based Sentiment Analysis Pipeline

Token Classification (NER)
Replace Personally Identifiable Information
using an ensemble of Rules, Spacy & Transformer-powered NER models

Unsupervised Text Clustering Pipeline
Utilizing Transfer Learning OR Traditional NLP
using Sentence Embeddings+Clustering OR prior topic-word-guided 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 - Spacy, PyTorch & its Ecosystem
*Spacy for tokenization, rules-based matching, linguistic features, custom-model training using GPU and transformers | Native PyTorch modelling, **Huggingface Transformers** (built on top of Pytorch pipeline), **Sentence-transformers***

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*

ML Project Management Best Practices
***GitHub** 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