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



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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/bestsuited 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

Roles

Chennai, India

- 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 Vidvalava 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 Clusterina

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 GPUcentric 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