

**Sachin Kalsi**, passionate programmer

[sachinkalsi15@gmail.com](mailto:sachinkalsi15@gmail.com),

+91 9945746470

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Senior Data Scientist with ~7 years of experience in NLP, Machine Learning, Deep Learning, and full stack software development.

## PROJECTS

### ❖ Natural Language Search Engine

- Redirecting the user queries (natural language queries) to one of the relevant product pages along with the identification of entities such as job title, skill, etc.
- Various models have been trained, developed, tested and deployed for intent classification & named entity recognition (NER).

### ❖ Cluster Similar News at Scale

- Summarise the news description and encode into high dimensional meaningful embeddings.
- Built custom ML models to cluster the similar news of a given company by taking the window of the last 5 days news and to pick the relevant news from each of the clusters.

### ❖ Generic web scrapers

- Built a generic web scraper to extract various fields from a given university URL which reduced the human efforts by 60%
- Built chrome extensions which helped in the annotation of various HTML elements which resulted in more accurate data extraction.

### ❖ Business function classification

- Classify the outsourced projects of a company into various categories
- Achieved a precision of 0.85 with well calibrated probabilities.
- Reduced the human resource by 70%

## EDUCATION

**Bachelor of Engineering (B.E.) in Computer Science (2009 - 2013) - VTU**

## EXPERIENCE

### DRAUP (draup.com)

*Senior Data Scientist*

- Built NLP based search engine including custom entity recognition.
- Worked on generic scrapers, browser extensions, Information retrieval from unstructured data, pattern identification.

### Calient Technologies

*Software Engineer*

- Analyze network device logs & classify the issues.
- Algorithm design to auto discover optical switches port.

### Cogoport

*Software Developer*

- Crawl websites, data analysis, DB & REST API development.
- Mentoring Interns, Data interpretation for sales team.

### Techniche e-commerce

*Full Stack Developer*

- Built e-commerce websites, full stack development.
- Train & mentor freshers.

### Hewlett-Packard (HPE)

*Technical Consultant-II*

- Built internal Java applications

## SKILLS

**Programming languages:** Python, Java(Fluent, Prior Experience), Javascript (Proficient)

**Libraries:** Pandas, Scikit-Learn, NLTK, Gensim, Seaborn, tf.keras v2.2, PySpark (Basic)

**Database:** MongoDB (Fluent, Prior Experience), MySQL (Basic)

**Machine Learning:** KNN, Logistic regression, Random Forest, SVM, Ensemble models, Unsupervised algorithms, Word2Vec, Basic Stats

**Deep Learning:** LSTMs, Seq2Seq