# Arpita Kumar Amitesh Singh

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## Experience Summary:

- Competent & diligent professional with 6 years of professional experience as Senior Software Engineer and started as a machine learning intern.
- Hand-on experience in handling all phases of SDLC life cycle for an application used to send out notifications to customers on paper, mail, SMS, Swift etc.
- A natural and pragmatic communicator with strong team working skills, excellent track record of successful projects delivered within schedule, budget and high quality standards.

## Education/Certifications:

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|---|---|---|
| **MS** | **Computer Science**| Santa Clara University, CA | 2017-2019 |
| **BE** | **Information Science**| Visvesvaraya Technological University, India | 2006-2010 |
| **Certification:** | Scrum fundamentals certified |SCRUM Study | 2017 |
| | Machine Learning by Andrew Ng| Coursera | 2018 |
| | AWS Certified Solutions Architect - Associate| Udemy | 2018 |

## Skills

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|---|---|
| Languages/ Web Framework: | JAVA, Python, HTML5, CSS3, JavaScript, XML, XSLT, Django, Tkinter, DB2, Oracle 11g, MongoDB, MySQL, NoSQL, Bootstrap |
| Libraries/Tools: | Eclipse, Netbeans, Android Studio, GitHub, TensorFlow, MATLAB, NLTK, Scipy Stack: numpy, scipy and pandas, Gensim, Scikit-Learn, PyCharm CE, MatplotLib |
| Coursework: | Algorithms, Database Systems, Natural Language Processing, Wireless and Mobile Networks, Artificial Intelligence, Pattern Recognition and Data Mining |

## Academic Project

### Natural Language Processing

**Fake News Detection:** Considered two measurements to leverage fake news detection. They are stance detection from Fake News Challenge (FNC). Applied feature engineering like count the **n-grams**, calculate the **TF-IDF** of the headline and body, applied **Singular-Value Decomposition** to obtain a compact, dense vector representation of the headline and body and then Absurdity feature is implemented by using **Part of Speech(PoS) tagger** and **Named Entity Recognizer (NER)** from NLTK toolkit.

## Work Experience

**goFind.ai | Machine Learning Intern**                                    **Jun 2018 – Present**

- Primary task includes building a **product recommendation model** using '**Bag Of Words**' Model for text similarity, **TF-IDF** and **Word2vec** for product similarity, and then **CNN based image features** for product similarity.
- Recommending attire suggestions to the users based on their current choice.
- Collect and modify the data like removing similar titles, missing data, duplicate data among a few.

**Larsen & Toubro Infotech Ltd. | Senior Software Engineer**              **Feb 2011 – Sep 2017**
*Awarded ACE – Best Team award in 2014 and 2015*

- Acted as **application owner/Subject matter expert** for an invoicing system handling all **phases of SDLC lifecycle** from requirement gathering, analysis, High Level/Detail Level Design, Code, unit testing, QA testing, production implementation and providing level 1 support.
- **Data generation, analysis and cleaning** to predict system and user requirements by refining existing technical architectural and Database operations such as Creating/managing objects like Table, Indexes, Functions, Sequences, Users, and Table-space – Database optimizations.
- **Data remodeling** received from mainframe systems, restructuring and data manipulation to send it to Message Plus/Open tool via https requests to collect more information and then send it to word processing tools like MS Word to further format it.
- Worked on a *migration* project from client location in **Copenhagen,Denmark**

## Awards/Affiliations

- **Sports official** at Santa Clara University.
- Team member of the **SWE(Society of Women Engineers)** organization.