# PRATIK SHRESTHA

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## Education and Technical Proficiency

2016  **Bachelors of Engineering (B.E.) in Computer Science**, Kathmandu University
**Relevant Coursework**
Data Structure and Algorithm, Algorithm and Complexity, Operating System, Compiler Design, Artificial Intelligence
**Languages**
Python, Shell, LaTeX, C, C++, SQL

## Work Experience

Nov 2016-  **Associate Software Developer/Consultant**, LIS Nepal Pvt. Ltd. (A Yómarí Company)
Present    Provided technical support and consulted Hottopic and SSC for ETL batch.
Developed BI solutions to report financial insights for Matahari.
Technologies: Oracle, Korn Shell

Jun 2016-  **Software Development Intern**, LIS Nepal Pvt. Ltd. (A Yómarí Company)
Oct 2016   Developed ETL solutions for PetCo.
Technologies: Oracle, Korn Shell

## Leadership Positions

2016      **Organizer**, Kathmandu University IT MEET, 2016
2015-16   **Python Community Executive Co-ordinator**, Kathmandu University Computer Club(KUCC)
2013-16   **Communication Information and Marketing**, AIESEC in Kathmandu University

## Achievements and Certifications

2014  **NCell App Camp 2014 Category Winner (Business Category)**
Pitched and presented Opinio Android Application.
2014  **Startup Weekend Kathmandu 2014 Winner**
Pitched and presented Opinio.

## Interests and Activities

- Programming, Problem solving, Whiteboards
- Linux
- Artificial Intelligence, Mathematical Modelling and Natural Language Processing
- Music and guitar
- Cartoon, comics and movies

## Projects

**2014-16**  **TheOpinio.co**

Aggregated analysis and insights of opinions over social media on product, service or business.

- Implemented social authentication using oauth2.
- Used Twitter streaming API, Twitter REST API for social media data.
- Generated various analytics along with sentiment analysis of tweets.

Technologies: Python, Django, MongoDB, json, Amazom EC3

**2016**  **Sentiment Analysis on Twitter Data**

Determining sentiment polarity (positive, negative) of tweets.

- Used Naive-Bayes algorithm to calculate sentiment polarity based on trained data-set.
- Determined performance by accuracy, precision, recall and generated confusion matrix.

Technologies: Python, SQLite

**2015**  **Nepal Quake Retweet**

A computerized real-time retweet mechanism for Nepal Earthquake 2015.

- Used Twitter streaming API, Twitter REST API for social media data.
- Recognized related tweets using Natural Language Processing.

Technologies: Python, json, Amazom EC3

**2015**  **University Lecture PDF Search Engine**

An information retrieval system that searches lecture PDFs from top university sites based on the provided search queries.

- Crawled and scraped top university site for PDFs.
- Parsed contents, meta-data and processed it using Natural Language ToolKit (NLTK).
- Generated an inverted index.
- Used Pearson's correlation for ranking and recommendation.

Technologies: Python, Django, json, MongoDB

**2013-14**  **Desktop Search Engine for Help Nepal**

A file-system search engine that searches based on keywords and file types.

- Probed and parsed contents, meta-data and standardized from files of different format.
- Processed the content using Natural Language ToolKit (NLTK).
- Generated an index and search a algorithm.

Technologies: Python, TKinter, SQL