

PRATIK SHRESTHA

PERSONAL DATA

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NATIONALITY: Nepalese

OBJECTIVE

To obtain an internship position involving programming, scripting, data and/or database management in an organization where I can apply and enhance my knowledge and skills while learning from the field experts.

EDUCATION

CURRENT Bachelors of Engineering (B.E.) in Computer Science
[Kathmandu University](#), Dhulikhel, Kavre, Nepal

2012 HSEB 10+2
[Prasadi Academy](#), Manbawan, Lalitpur, Nepal

2010 SLC
[Little Angels School](#), Hattiban, Lalitpur, Nepal

TECHNOLOGY SUMMARY

Programming Proficiency: Python
Django Web-Development Framework
C, C++
Shell Scripting

Database: MySQL
SQLite
MongoDB

Design and IDE Tools: vi/vim
Github
Adobe Photoshop
GIMP

Office Tools/ Typesettings: Microsoft Office Package
Libre Office Package
L^AT_EX

Platforms/ Operating Systems: Linux
Windows XP/7/8
Mac OsX

PROJECTS

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| 2014-16 | <p>Opinio
Aggregated analysis and insights of opinions over social media on product, service or business.</p> <ul style="list-style-type: none">• Used Twitter streaming API, Twitter REST API for social media data.• Generated various analytics along with sentiment analysis of tweets.• Implemented server side programming with Django. |
| 2016 | <p>Sentiment Analysis on Twitter Data
Determining sentiment polarity (positive, negative) of tweets.</p> <ul style="list-style-type: none">• Used Naive-Bayes algorithm to create a classifier that provides sentiment polarity based on trained dataset.• Determined performance via calculating accuracy, precision, recall and generated a confusion matrix. |
| 2015 | <p>Nepal Quake Retweet
A computerized realtime retweet mechanism for Nepal Earthquake 2015.</p> <ul style="list-style-type: none">• A python script running on a server maintained a twitter account.• Recognized important tweets and retweeted them via the account. |
| 2015 | <p>University Lecture PDF Search Engine
An information retrieval system that searches lecture PDFs from top university sites based on the provided search queries.</p> <ul style="list-style-type: none">• 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.• Implemented database with NoSQL and server side programming with Django. |
| 2014 | <p>Research on Sentiment Analysis in Music
A research to provide measures to analyze sentiment polarity of music. recognize musical notations and chords from a music piece.</p> <ul style="list-style-type: none">• Sampled and applied FFT to obtain a music piece in frequency domain.• Applied music theory to the frequencies to obtain notations and chords.• Implemented Naive-Bayes algorithm on chord patterns to determine polarity.• Mapped music pieces in Russell's Multidimensional model and Thayers's Model. |
| 2013-14 | <p>Engine Gaadi
A Python module used to probe directories, search files, their types, contents and meta-data. Searches can be made to find keywords in documents and files with similar contents.</p> <ul style="list-style-type: none">• Probed and parsed contents, meta-data and standardized from files of different format within the filesystem.• Processed the content using Natural Language ToolKit (NLTK).• Generated an index and search algorithm. |
| 2013 | <p>Markdown to LaTeX Converter
A python script to convert a simple markup language Markdown document to a huge complex documentation language LaTeX.</p> |
| 2012 | <p>Classroom Zombie
A lighthearted Zombie shooting game made in C.</p> <ul style="list-style-type: none">• Implemented using SDL. |

EXPERIENCE

2013-CURRENT	Communication Information and Marketing AIESEC in Kathmandu University Internal Communications, Information Management, Brand Management, Creative Design, Marketing.
2015-CURRENT	Python Community Executive Co-ordinator Kathmandu University Computer Club(KUCC) Manage python related activities, events.

ACHIEVEMENTS AND CERTIFICATIONS

DEC 2014	NCell App Camp 2014 Category Winner (Business Category) Pitched and presented Opinio Android Application.
DEC 2014	Startup Weekend Kathmandu 2014 Winner Pitched and presented Opinio.
JULY 2006	HacktheQuake Ideathon Presented

COLLEGE ACTIVITIES AND PARTICIPATION

2016	Kathmandu University Photography Meetup Organizing Committee Member
2015	AIESEC in Kathmandu University Member Recruitment, Induction, 2014 Organizing Committee Member
2015	ReNepal Hackathon, 2015 Participation
2014	KU IT Meet, 2014 Volunteer
2013	CAN Infotech Presented Classroom Zombie
2013	KUCC Hackathon, 2013 Participation

VOLUNTEERISM

APR 2015	National Information Technology Center (NITC), Nepal - Earthquake Relief Portal Devemopment Contributed in developing an online government portal dedicated to service and relief through data, information and communication during the unfortunate and catastrophic earthquake in Nepal.
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INTERESTS AND ACTIVITIES

- Natural Language Processing,
- Machine Learning,
- Data Structure, Algorithm & Complexity,
- Data Mining and Warehousing
- Brand Management and Marketing
- Event Management
- Music and guitar
- Cartoon and comics

LANGUAGES

NEPALI: Mothertongue
ENGLISH: Fluent
HINDI: Basic Knowledge

REFERENCE

Available on request.