**Gurupad S. Hegde**

[gshguru@gmail.com](mailto:gshguru@gmail.com)

+91-7893028232

EDUCATION:

|  |  |
| --- | --- |
| 7/2007 – 5/2011 | **S.V. NATIONAL INSTITUTE OF TECHNOLOGY, SURAT**  B. TECH, Computer Engineering, 2011 (CGPA- 6.87/10.00) |
| 2007 | **Department Of Pre University Education, Karnataka**  Intermediate **–** 12th (90.5%) |
| 2005 | **Karnataka Secondary Education Examination Board**  10th (88%) |

WORK EXPERIENCE:

|  |  |
| --- | --- |
| 10/2011 – 6/2011 | **Software Engineer, Inputo Technology Solutions, Hyderabad**   * **Mining insights** for Social Audits conducted by Society for Social Audit, Accountability and Transparency(SSAAT) on National Rural Employment Guarantee Scheme (NREGS) * Analyzing and mining patterns for implementation NREGS scheme covering almost 3 crore wage-seekers (**more than 50 crore transactions**) in the state of Andhra Pradesh * Identifying and gathering additional data sources (like census) to amplify the improvements and provide **statistical data quality processes** for these data sources * Apply machine learning algorithms to analyze the data and generate models that can be applied to the field level execution * Communicating informed conclusions and recommendations with clients and domain experts * Designed a web application for recommending audit schedules and resource requirements based on previous audits data * Developed a desktop application for processing scanned survey forms (using VS2010, openCV and tesseract) |
| 8/2010 – 5/2011 | **Optimizing Data Mining Process Using Graphic Processors (Final Year Project)**   * Successfully implemented Bitmap based Apriori Algorithm on both CPU (using C++) and NVIDIA Graphics Processor (using CUDA) * Efficiently used SIMD architecture of GPUs and achieved significant performance speedup |
| 7/2010 – 12/2010 | **Data Mining and Visualization Tools (Final Year Paper Presentation)**   * Analyzed and presented a detailed report on various tools available for Data mining (Rapidminer, Weka, Orange and Clementine) * Focused on **RapidMiner** (Open Source Tool) and its Advantages |
| 4/2010 – 7/2010 | **Bharat Electronics Ltd, Bangalore ( C-D&E, software)**   * Carried out Project Work on “ **GUI for a self-made DBMS application**” * Designed a database scheme for self-made application * Programmed database connectivity using C# and .NET |

KEY SKILLS:

|  |  |  |
| --- | --- | --- |
| Languages | : | **Python**, C++ (STL), C#(.Net) |
| Operating Systems | : | Windows (All Flavors), Linux (Ubuntu 12.04 and Open SUSE 11.2) |
| Tools | : | **Scikit-learn** (machine learning toolkit in Python), nltk (natural language toolkit), RapidMiner  **Apache : { Hadoop, Pig, Hive and Avro }** (Beginner level proficiency)  IDLE, MS Office, Adobe Photoshop CS5, VS 2010 |

OTHER ACHIEVEMENTS:

**Quora Machine Learning CodeSprint 2013**

* Out of 3 challenges, finished **first** in one (Quora ML Problem: Answered), scoring a full one point (1% more accuracy) over the next best contestant ([Prizes](http://codesprintquora.quora.com/Winners-of-our-week-long-ML-CodeSprint-results-of-the-hidden-test-set-1)).
* For this task, given Quora question text and topic data, problem was **to predict whether a question gets an upvoted answer** within 1 day.
* Used logistic Regression (from scikit learn in python) to get an accuracy of 66.34% ([Leaderboard](https://www.hackerrank.com/contests/quora/challenges/quora-ml-answered/leaderboard)).

**UCSD Data Mining Contest 2010, sponsored by FICO.**

* Stood in **top 5** Indian Teams
* The goal was to build a classifier that will recognize customers in unlabeled data for “**E-commerce customer Identification**”
* Used various models and tools: LibSVM, Random Forest

**Quest-2010 organized by ACM –NIT Surat Chapter**

* Won 1st prize for presenting a paper “**Employing GPUs for Machine Learning** ”
* Example application used was **k-NN classification** algorithm
* Discussed advantages and challenges of Using GPUs  for ML related algorithms

**Machine Learning and Data Mining:**

* Best rank on kaggle.com is **167** out of 45,119 data scientists (August 2012). Profile link: [**kaggle.com/u/1889**](http://kaggle.com/u/1889). (Kaggle hosts competitions for data science problems)
* Implemented **Apriori** (in C#, C++ and python), **k-NN** (C++), Naïve Bayes(Python in only 25 lines) and **k-Means** (C++) algorithms

ACTIVITIES AND INTERESTS:

Sports           : Represented institute (NIT, Surat) volleyball team

Media            : Worked as an Executive Editor of college newsletter “RENESA”.

Social Work: Member of an NGO, “Parivartann-change for better” and RangDe

LANGUAGES: Kannada (Native), English (Fluent) and Hindi (Fluent)