ABHISHEK VERMA

R100214006

Computer Science and Engineering

University of Petroleum and Energy Studies

Bidholi, Dehradun, Uttarakhand, India - 248007

Email   : abhishek_verma@hotmail.com

Contact : +91 73519 59130

GitHub : github.com/hell-sing

Website: www.abhishekverma.me

LinkedIn: linkedin.com/in/verma-abhishek

Objective: Seeking internship in a fast growing organization to acquire experience and attain excellent standards by imploring ideas, while meeting organizational needs.

ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute/School
2018	B. Tech Computer Science S/W Open Source and Standards	University of Petroleum and Energy Studies
2017	Machine Learning Engineer Nanodegree	Udacity Inc.
2014	Class XII Board (CBSE)	Kendriya Vidvalaya No. 2, Jodhpur
2012	Class X (CBSE)	Kendriya Vidvalaya No. 2, Jodhpur

TECHNICAL SKILLS

- Programing Languages   Python, C, C++, Ruby , Perl, Java, Flex, Bison, Make, Bash (Shell Script)
- Libraries   Numpy, Pandas, Matplotlib, Scikit-Learn (Machine Learning), Tensorflow (Deep Learning)
- Software   MATLAB, Octave, Anaconda, Atom, Jupyter Notebook, Gimp
- Documentation   Markdown, UML Diagrammer
- Version Control   Git & GitHub

RELEVANT COURSES UNDERTAKEN / ONGOING

- DESIGN AND ANALYSIS OF ALGORITHMS
- NATURAL LANGUAGE PROCESSING
- PROGRAMMING AND DATA STRUCTURE
- ARTIFICIAL INTELLIGENCE
- IMAGE PROCESSING
- MACHINE LEARNING
- OPERATING SYSTEMS
- SERVICE ORIENTED ARCHITECTURE
- SOFTWARE ENGINEERING AND PROJECT MANAGEMENT
- COMPILERS DESIGN
- COMPUTER SYSTEM ARCHITECTURE
- FORMAL LANGUAGES AND AUTOMATA THEORY
- MARKETING AND SERVICES IN OSS
- INTRODUCTION TO OPEN SOURCE & STANDARDS

INTERNSHIPS AND RESEARCH PROJECT

TEXT COMPUTATION USING NATURAL LANGUAGE PROCESSING   (2016)

- o   **B.TECH MINOR PROJECT, UPES DEHRADUN**
- Developed Natural Language Processing calculator which is better than Linux Basic Calculator (BC).
- Designed the grammar (BNF) and implemented it using syntax handling language YACC, LEX, MAKE and C programming language.

FLEX/BISON CHEAT SHEET – IA DUCKDUCKGO INC.   (2016)

- o   **OPEN SOURCE PROJECT, DUCKDUCKGO**
- Created search engine plugin (Instant Answer module) for DuckDuckGo which
- Designed static cheat sheet for Flex and Bison for DuckDuckGo written in Json and Perl.

PREDICTING STOCK MARKET PRICES (SUPERVISED MACHINE LEARNING)   (2016)

- o   **CAPSTONE PROJECT, UDACITY**
- Built a model to predict the directional movement of stock prices for S&P 500, using multiple classification algorithms.
- This project used classification models to determine whether a stock price will increase or decrease in next five trading days. The best results were obtained using SVM with an F1 score of 68.20%.

MESSAGE SPAM DETECTION (SEMI - SUPERVISED MACHINE LEARNING)   (2017)

- o   **CAPSTONE PROJECT, UDACITY**
- Developed a classifier to detect ham and spam messages, using Naive Bayes model.
- Trained Naive Bayes classifier using UCI SMS Spam Collection Data Set. The spam detection classifier was able to achieve an accuracy more than 70%.

TRAIN A SMART CAB TO DRIVE (REINFORCEMENT MACHINE LEARNING)   (2017)

- o   **ML NANODEGREE , UDACITY**
- Developed a reinforcement learning agent for a smart cab that needs to drop off its passenger to the goal state in the shortest time possible.
- Designed an algorithm to tweak when the agent needs to explore and when it needs to exploit using the q-learning policy.

POSITIONS OF RESPONSIBILITY

OPEN SOURCE COMMUNITY MEMBER, DUCKDUCKGO INC.   (2016)

- Code reviewing pull requests for new Instant Answers (IA) modules.
- Creating new Instant Answer (IA) modules and Search Engine Plugin using Perl, Json and JavaScript.

COMMUNITY LEADER, UPES – ARTIFICIAL INTELLIGENCE COMMUNITY   (2016)

- Responsible for organising events, workshops and involving students in Open Source projects.
- Developing various prototype model for illustrate about Machine Learning Models.

EXTRA-CURRICULAR ACTIVITIES

- Created my own **portfolio website** (Abhishek Verma) **www.abhishekverma.me.**   (2017)
- Open Source **contributor** (DuckDuckGo) **www.duckduckgo.com** via GitHub.   (2016)
- Won **first prize** in Project Parliament in **CIT-Conclave'16** at UPES on 11 Dec'16.   (2016)
- An active participant in the **online coding events** on Hacker-Earth, Hacker-Rank**, Kaggle**.   (2016)
- **Python Certified** (185522QGIL) by Spoken Tutorial Project, **IIT Bombay**.   (2015)
- Won **second prize** in Code Buzz held in **CIT-Conclave'15** at UPES on 12 Dec'15.   (2015)
- **Branch Representative** of CSE OSS for UPES – **Association for Computing Machinery** (ACM).   (2015)