ARNAB TARWANI

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Recent Masters graduate from University College Dublin and have 6 months of experience in web development. Over the past year I've grown passion for data and machine learning with main focus on JavaScript, JQuery, HTML5/CSS3, VueJS, MySQL as a whole and am seeking JavaScript or Web Developer role.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++
Database Technologies: MySQL, MongoDB
Machine Learning, Data Analysis: RapidMiner, Weka, Keras, Pandas, Numpy, Matplotlib, Plotly, Bokeh, Scikit-Learn, Seaborn, Tableau,
Development tools: VmWARE, Oracle VirtualBox, Microsoft Azure, AWS, XAMPP
Web Frameworks: Django, VueJS
Scripting Languages: D3.Js, JavaScript, JQuery , HTML, CSS3, Bootstrap
Operating Systems: Linux, Windows, Android

EDUCATION

MSc. Computer Science Negotiated Learning **University College Dublin** **2018 - 2019**
Final Year Project: Identification of on-set of depression on Twitter data using NLP
Technologies Used: Python, Django, HTML/CSS/JavaScript, Bootstrap, D3JS, NLP, Sentistrength
Modules: JAVA Technologies, Information Visualisation, Data Programming with Python, Data Science in Python, Machine Learning, Text Analytics, Big Data Programming, Data Mining, Human Languages Technologies

BE Computer Technology **YCCE, India** **2013 - 2017**
Achievements: Graduated with First Class degree
Final Year Project: Campus Commune Navigation System
Technologies Used: Augmented Reality | **Softwares Used**: Unity3D, Android
Modules: Web Development, Artificial Intelligence, Pattern Recognition, Fuzzy Logic and Neural Networks, Data Structures, Design and Analysis of Algorithms, Object Oriented Programming

COURSES/TRAINING

Machine Learning (Coursera.org) **Stanford University** **August 2018**
Achievements: Completed the course with a percentile of 94.4%

ACADEMIC PROJECTS

Identification of on-set of depression on Twitter data using NLP at UCD **May 2019 – August 2019**
- Built a web application with a dashboard using Django as web framework to provide an interface for users to Register/Login, used SocialAuthDjango for authentication
- Created a trend line chart for the overall sentiment of the tweets and visualized the data using D3JS
- Designed an algorithm based on NLP approach to calculate the polarity of tweets based on the concepts of SentiStrength
- Conducted evaluations to validate the accuracy of the algorithm and provided descriptive analysis on the accuracy improvisations and overall execution of the project
  Technologies Used: Python, Django, HTML/CSS/JavaScript, Bootstrap, D3JS, NLP, Sentistrength

Text Analysis on Yelp Reviews using Classification Algorithms at UCD **May 2019**

- Web scraped Yelp Reviews dataset based on 5 broad categories mainly automobiles, hotels, bars, food and Restaurants
- Performed text analysis on Yelp reviews data using Python and Scikit-Learn, increased the accuracy of the model by 94%
  Technologies/Libraries Used: Python, Pandas, Scikit-Learn, BeautifulSoup, Matplotlib

Exploratory Analysis of TED Talks at UCD **March 2019**

- Analysed the data of TED Talks based on the transcripts
- Analysed using the concepts of data selection, data sampling, learner selection and data visualization
  Technologies/Libraries Used: Python, Scikit-Learn, Pandas, Seaborn, Matplotlib

Channelling Hans at UCD **November 2018**

- Recreated the Gapminder tool using D3.JS, HTML, CSS, Bootstrap and JQuery
- The data used was based on GDP of 195 countries in the world for three years – 2015, 2016, 2017
  Technologies/Libraries Used: HTML, CSS, D3JS, JQuery, Bootstrap

Sentiment Analysis on Women's Clothing Reviews at UCD **November 2018**

- Implemented a neural network model that was able to recognize three different human variations of emotions from text data of reviews provided by women in a clothing store using Python and Keras toolbox
  Technologies/Libraries Used: Python, Keras, Scikit-Learn, Matplotlib

Calculating Body Fat Percentage using Genetic Algorithm at UCD **October 2018**

- Implemented a neural network to calculate the body fat percentage of a person based on features like weight, height, neck circumference, chest circumference, abdomen circumference and circumference of other body parts using Python packages such as **Pandas, Numpy, Matplotlib and Scikit-Learn**

INTERNSHIPS

Web Developer **Indian Chest Society** **08/2017– 12/2017**

- Managed a team of 4 people from the development team and was also in-charge for giving weekly presentations to the management team relating to the amount of work done
- Used Django and Jinja2 frameworks to develop a backend environment for newly registered users
- Worked on technologies like HTML, CSS, JavaScript, Bootstrap and Wordpress for UI design
  Technologies used: HTML, CSS, JavaScript, Bootstrap, Wordpress, JQuery

IT Intern **Veracity IT & Legal Services** **05/2015– 07/2015**

- Completed training as a database administrator at the firm
- Worked with the technical team which was responsible for maintaining the technical requirements from clients records to the number of digital signatures issued
- Worked on MySQL and MongoDB for storing and extracting the data
  Technologies used: MySQL, MongoDB, Shell Scripting

INTERESTS AND ACHIEVEMENTS

- Attended ethical hacking workshop organised in YCCE
- Appointed as a President of Shadow Teachers Association at YCCE
- Worked as a Technical Head in the event Webster organized at YCCE