Ayush Pandey

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Objective

To pursue post-graduate studies in computer science. I am especially interested in studying machine learning and applying that knowledge to solve problems in natural language processing and artificial intelligence.

Academic Qualifications

- **National Institute of Technology Agartala** — **Agartala**
  Bachelors of Technology, Computer Science and Engineering , CGPA: 8.85/10.0 (Till 5th Semester) — *2016-Present*
- **Cambridge School Indirapuram** — **Ghaziabad**
  XII CBSE(AISSCE), Science, Percentage: 95.0/100, 99% in Computer Science — *2016*
- **Cambridge School Indirapuram** — **Ghaziabad**
  X CBSE(AISSE), High School, CGPA: 10.0/10.0 — *2014*

Technical Skills

- **Programming Languages:** C/C++ Python Java Octave/Matlab Bash
- **Markup Languages:** HTML CSS LaTeX
- **Tools and Libraries:** Tensorflow Sci-Kit Learn Keras NLTK Pandas
- **Database:** MySQL

Research, Projects & Courses

- **Toxic Comments Classifier – Python** *using sklearn,Tensorflow, Pandas, NLTK (Research Project)* *2018*
  A classifier to analyse the toxicity of online comments and find ways to improve existing models for better identification of hate speech online. The Wikipedia Comments Dataset (6 Labels, 1.5 million comments) was analyzed using Pandas and Matplotlib. Text preprocessing was completed using regular expressions and NLTK. A Naive-Bayes classifier (TF-IDF Vectors) and a deep LSTM (RNN) network (with Word Embeddings) were used to train the model. Word vectors were generated using pre-trained word embeddings from GloVe and the TF-IDF vectors using Tokenizer API. These were trained on both the models and fine-tuned for optimum performance.
  Training Accuracy [Naive-Bayes]: 86% *Training Accuracy [RNN]: 94.2%*

- **Sentiment Analysis of Twitter Comments – Python** *using sklearn, NLTK (Independent Project)* *2018*
  A project to analyze text sentiment classification performances of traditional machine learning models. Bag-of-words model created using Count, TF-IDF and Hash Vectorizers and tested on 3 classifiers Logistic Regression, Naive-Bayes and SVM. *Best Accuracy: 85%*

- **Web Scrapper - Python, HTML** *using BeautifulSoup (Independent Project)* *2017*
  A Web Scrapping program that scraped a website for names of mathematician using requests, process them using BeautifulSoup and then list them in the order of their current popularity by extracting their Wikipedia page views of last 60 days.

- **Machine Learning - Coursera** *(Octave)* *2018*
  Stanford University - Andrew, *Grade Achieved: 96.0%*

- **Neural Networks and Deep Learning - Coursera** *(Python)* *2018*
  deeplearning.ai, *Grade Achieved: 100.0%*

- **Algorithmic Toolbox - Coursera** *(C++)* *2018*
  University of California San Diego & National Research University Higher School of Economics
  Grade Achieved: 97.0%

- **Data Structures - Coursera** *(C++)* *2018*
  University of California San Diego & National Research University Higher School of Economics
  Grade Achieved: 95.2%

Achievements

- Scored **95%** in Class XII with a percentile score of **98.61**. **School Topper** in Science stream (2016).
- Won the *"Best Idea"* award at the **International Youth Conference**, Dehradun, India for *"Economic Water Purification Technology"*(2016).
- Awarded the *"Student of the Year Award"* by **Times Of India** (2015).

Extra Curricular Achievements

- *"The Little Detective"* published by Scholastic under **top 10 short stories in India** (2010).
- 1st in **All-India Interschool Debate Competition** held at Raja RamMohan Roy Academy, Dehradun (2014).
- Awarded the *"Best Actor"* in Street Play at college fest Advaitam 3.0. (2017)

Position of Responsibility

- Head Boy - Cambridge School Indirapuram [Senior School(2016), Middle School(2012) and Junior School(2009)].

Personal Details

- **Date Of Birth :** 20-10-1998
- **Languages :** Hindi, English
- **Interests/ Hobbies :** Gaming, Singing, Coding

References

- Projects available on GitHub - *https://github.com/ayushp20*.
- Online Course Certificate URLs available on LinkedIn profile - *www.linkedin.com/in/ayushpandey2010*.