Nishant Singh Pall

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Education

Punjab Engineering College (Deemed To be University)	Chandigarh, India
Bachelor of Technology in Mechanical Engineering	*Aug. 2018 – Present*

Overall GPA: 7.36 based on 3 semesters

Government Model Senior Secondary School	Chandigarh, India
Senior School Examination, CBSE-2018	*Aug. 2016 – Mar 2018*

Overall Score: 90.2 Percent

Experience

Machine Learning Intern	August 2020 – September 2020
Appcilious pvt. ltd.	*Bengaluru, India*

- Performed NLP techniques to preprocess the scraped reviews.
- Implemented Language detection and translation techniques to translate non-English reviews.
- Performed sentiment analysis using VADER Model to evaluate sentiment of the reviews.
- Extracted keywords from negative reviews to evaluate root cause analysis.
- Implemented Topic Modelling techniques to classify reviews according to the root cause.

Projects

Particle Identification	June 2020 – August 2020

- Analysed particle decay into muon-antimuon pairs and figured out the mass of Z boson with loss 0.05.
- Performed particle identification using data generated by the detector systems with log loss 0.55.
- Designed a model that is able to discriminate electromagnetic showers from the background basetracks.
- Identified showers as a result of interaction of Dark matter scattering with lead nuclei.
- **Tech Stack**:Python3, Tensorflow 2.0, PlaidML

Babi ChatBot	July 2020 – August 2020

- Implemented the underlying concepts in the End-to-End Memory Networks research Paper.
- Developed a Q&A chatbot using the bAbI dataset released by Facebook Research.
- Trained the Encoder-Decoder Neural Network and achieved 0.94 accuracy on the validation data.
- **Tech Stack**:Python3, Keras, SpaCy

Deutsch-English Neural Machine Translation	August 2020 – September 2020

- Implemented attention mechanism to an encoder-decoder structured Recurrent Neural Network.
- Trained the model on about 200,000 pairs of Deutsch to English sentences of varying lengths.
- Achieved the best and worst BLEU scores as 32.08 and 26.07.
- **Tech Stack**:Python3, Tensorflow 2.0, NLTK

Technical Skills

Languages: Python3, C++, SQL, JavaScript, HTML/CSS
Tools/Technologies: Git, Docker, Vim, Tensorflow 2.0, Keras, MongoDB

Position of Responsibility

ACM-CSS
- Led the Machine Learning group of the society and taught the fresher's about underlying concepts in ML/NLP.
- Assisted as a TA for teaching concepts of Data Structures and Algorithms.

Junior Einstein
- Volunteered to work for education and holistic development of underpriviledged kids.
- Managed to boost the average scores of Teg Bahadur School Sec-15, Chandigarh