Nishant Singh Pall

nishantpall877@gmail.com | linkedin.com/in/Nishant | github.com/Nishant| Nishant-Pall.github.io

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 4 semesters

Government Model Senior Secondary School   Chandigarh, India
Senior School Examination, CBSE-2018   *Aug. 2016 – Mar 2018*
Overall Score: 90.2 Percent

Experience

Research Assitant   October 2020 – April 2021
German Aerospace Center (DLR)   *Cologne, Germany*
- Carried out research to improve state of art speech recognition models.
- Implemented deepspeech model from mozilla and fine tuned the scorer file using the kenLM toolkit.
- Fitted the model to identify corpus related to software engineering jargon.
- Achieved 95% accuracy on corpus scraped from websites providing education in computer science.

Software Engineering Intern   December 2020 – April 2021
BuildAR   *Panchkula, India*
- Used ReactJS to build front-end to improve user experience.
- Created chatbots for companies providing healthcare and home services to ensure better client convenience.

Machine Learning Intern   August 2020 – September 2020
Appcilious pvt. ltd.   *Bengaluru, India*
- Carried out sentiment analysis of reviews on Playstore.
- Implemented Attention Mechanism to translate non-English reviews.

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.
- Achieved the best and worst BLEU scores as 32.08 and 26.07 respectively.
- **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, ReactJS, 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.

Junior Einstein
- Volunteered to work for education and holistic development of underprivileged kids.