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 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 Assistant — October 2020 – April 2021
German Aerospace Center (DLR) — *Cologne, Germany*
- Obtained and cleaned data using conventional NLP techniques for training ASR models.
- Leveraged Speech-to-Text models and scorers from Mozilla to evaluate performance on various generic datasets.
- Used the kenLM toolkit and a corpus consisting of software engineering jargon to generate scorer.
- 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 and improved user experience.
- Created chat-bots for clients providing healthcare and home services to ensure better customer convenience.

Machine Learning Intern — August 2020 – September 2020
Appcilious pvt. ltd. — *Bengaluru, India*
- Carried out sentiment analysis of reviews scrapped from Playstore review section of popular applications.
- 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, Neovim, Tensorflow 2.0, Keras, ReactJS

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.