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Sourav Kumar

Education

2016-present B.Tech Hons in Computer Science and Engineering, International Institute of Information Technology(IIIT), Hyderabad, CGPA - 7.61/10.

2013–2015 Senior Secondary, CBSE, Golden Earth Global School, Sangrur, Percentage -91.8.

2012–2013 Secondary, CBSE, Sita Grammar School, Malerkotla, CGPA: 9.8/10.

Work Experience

Research Project

Language Technologies Research Centre (LTRC), under Prof. Dipti Misra Sharma, IIIT Hyderabad.

April 2019-present A user study of neural interactive translation prediction.

Neural Interactive Translation Prediction involves an MT system presenting a translator with translation suggestions which they can accept or reject, actions the MT system then uses to present them with new, corrected suggestions. Analyzing results of an empirical study on translation productivity in ITP with an underlying NMT system and compare the NITP results with Post Editing (PE).

December Neural Machine Translation.

2018-present Phrase Based Multilingual Machine Translation using a single Neural Network Model by introducing artifical token of target language in start using a shared wordpiece vo-cabulary.

Full Stack Developer

June 2019–Present Omikron Technologies, Inolve in Software publishing, consultancy and supply, Worked on various platforms, chat bots and live AWS servers.

Aug 2017-Nov Taxi1way Android App, Online Taxi Booking, Android application which pro-2017 vides online Taxi booking facility for popular cities with payment secure gateway.

Machine Learning

May 2019-June Mobizite, Innovative solutions for businesses, Machine Learning projects build 2019 the Text Extractor(from Id cards) using Pre-Build Models. Further Extended this project to Bar-code Scanner for individual identification.

Freelance Work

July 2019-Present MyMegaMinds, Provide Online Education, Worked on screen-recording with audio of the tutor giving lecture and then sending the video to server in chunks.

June 2019–July Smarter Cam, Al Wifi Cameras, Implemented the notification using IFTTT when 2019 human or motion is detected by camera. Integrated the Paypal secure payment gateway for the application...

Projects

Data Mining Association Rule Mining using Apriori Algorithm for Indian State Assembly Election and Candidates Data (1962-Present).

NER Detection for Experimented with different machine learning classification algorithms (Decision Code Mix Data Tree, LSTM, CRF) with word, character and lexical features. Python.

Sentimental Experimented on feature extraction method's. Then classification of twitter tweets Analysis by extracting feature vector using neural network algorithms. Python.

Tic-Tac-Toe Al Al Bot based on concepts of Heuristics, Iterative Deepening and Min-Max algo-Bot rithm with Alpha-Beta Pruning in **Python**.

Recognition using Recurrent Neural Networks in keras and Tensorflow. Python. Proxy Server A multi-threaded HTTP proxy server with caching, blacklisting functionality

Automatic Speech Complete single End-to-End Automatic speech recognition system for English

implemented via socket programming

C Shell An interactive user defined shell in C similar to bash, including new commands and features like input-output redirection, piping and signal handling

Games • Terminal Based(Python): Game based on Bomberman with terminal based UI without using PyGame and Curses library

• OpenGL 2D Game: 2D game based on Pacman-killer implemented in C++

 OpenGL 3D Game: 3D game based on Legend of Zelda implemented in C++ using OpenGL 4.5

Technical Skills

Knowledge

Working Machine Learning, Shell, HTML5, CSS, Python, C, C++(STL), SQL, PHP

Past Experience Jquery, Flask, Javascript, OpenGL, Android studio, Google Collab, GPU's

Relevant Coursework

CS Computer Programming, Data Structures, Algorithms, Operating System, Computer Networks, Graphics, NLP Applications, Artificial Intelligence, Statistical Methods of Artificial Intelligence, Optimization Methods, Data warehousing and Data mining, Computer Architecture,

Mathematics Discrete Mathematics, Abstract Algebra, Vector Space, Formal Methods, Group Theory

Achievements

JEE Scored 250/360 in JEE Mains and ranked 2000/1.5 lac in JEE Advanced

Position of Responsibility

2018 Conduted Intra-college Bhangra tournament

2018 Inter-college Bhangra team member

2017 Felicity-Buzz(College Fest) Web Team member