Igor Tarlinskiy

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EDUCATION

Specialist's degree at Lomonosov Moscow State University Sep 2015 - Jun 2021
Faculty of Fundamental mechanics and mathematics.

Android development at Samsung IT-school, Irkutsk, Russia Sep 2014 - Jun 2015

- As a result of graduating I wrote fully functioning android app very similar to *Instagram*. Won the nomination *Best social app*.

EXPERIENCE

Data Scientist Apr 2019 - Dec 2019
Internship, Sberbank, Moscow, Russia

- I was part of the team working on *Chatbot*. My goal was to research existing solutions on *Text Classification Problem* and try different net architectures to extract keywords from short phrases (client's message. E.g. "How can I take a credit?" should be classified as "credit"). Changing architecture from vanilla *RNN* to *Seq2Seq RNN* as well as adjusting the size of Embeddings *Word2Vec model* resulted in decrease of Loss function (*Multiclass Cross-entropy*).

Software engineer Nov 2017 - Oct 2018
Fullstack developer, Alfasystem, Moscow, Russia

- On the server-side I implemented *logging system* for *User/Developer/Client* with the ability to filter logs by specified parameters, such as *processId, sessionId, date and time, etc...*, which resulted in much faster debugging process for developers as well as fixing three critical bugs, sometimes called *Communication bugs* between client and server.
- Created a tool for tracking dependencies between different JavaScript scripts which increased loading of HTML pages by at least 10%. Perfomance increased dramatically (approximately 7.5%) by removing heavy-lifted CSS files.

PERSONAL PROJECTS

- Wrapper around YouTube search. Frontend application for personal use. To avoid recommended videos when searching YouTube. Made with *Vue.js*.
- Neural network from scratch. Tutorial I wrote to explain the mechanics of Neural Networks using only *NumPy*. Derivation of both *forward* and *backward* propagation including the application of the *Chain rule* from Calculus in *Gradient descent* method.

COURSES

- NLP in TensorFlow (Coursera).
- Introduction to TensorFlow for AI, ML and DL (Coursera).

SKILLS

Backend: C++(*Fluent*), Java(*Basic*)
ML,DS: Python(*Keras, TensorFlow, Scikit-learn*), LSTM, t-SNE
NLP: TfIdf, Word2Vec, GloVe, Seq2Seq

COURSEWORK

Research describing the algorithm that was being used on Russian satellites in the middle of 80-90 years. Algorithm description and accuracy analysis.