Uday Bhaskara Rao Paila

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Blog : https://udibhaskar.github.io/practical-ml/   Linked In : in/uday-paila-1a496a84/

PROFESSIONAL SUMMARY

- Has 4 years of Industry experience. Currently working as a Machine Learning Engineer in AAIC Technologies.
- Has hands on experience and good knowledge in Machine Learning, Deep Learning , NLP, CV and Python.
- Worked on many end to end data science/ML projects and deployed them successfully using CRISP-DM methodology.

EXPERIENCE

- **AAIC Technologies**
  Machine Learning Engineer   *Feb 2019 - Present*
  - **Similarity Question Finding -** Currently working on a model which predicts the similarity questions/duplicate question in our database. I am trying with CNN and RNN models to get some feature representations. Trained the fast text word vectors with our database and StackOverflow question data to get word vectors for technical words. Deployed a model that recommends a similar question and this reduced no of queries coming to our team by 24%
  - **AI based Proctoring -** Working on POC to do auto proctoring like, detection of candidate distraction, multiple people, electronic devices.
  - **Keyword Extraction and Theme Identification -** Trained encoder-decoder architecture with word-embeddings to extract keywords from given text and theme/intent of the same text, this improved similarity finding and tagging.
  - Mentored many working professionals/students in AppliedAICourse to learn Machine Learning/Deep Learning.
  - Developing a tf.keras package for seq-seq architectures and some NLP related tasks.(Personal Project).

- **Wipro**
  Associate Consultant   *July 2016 - Jan 2019*
  - **Service Ticket Intelligence -** CRM services create a service ticket based on inbound emails, social networking. For all these tickets customer care agent reads the text and assigns a category, after that based on category system assigns agent for resolution. So we built models to classify incoming customers service tickets so that can be routed to the right agent and will get a timely response. For the business use, they are classifying tickets into one or more categories at max 4. These categories are either individual or hierarchical. Built models using Seq2Seq architecture using GRU to predict 4 categories for every incoming ticket. Used Luong attention mechanism while building the Seq2Seq architecture.
  - **Service Ticket Redirect Options Generation -** Internally we use a ticketing system to create any support tickets. This system is already using a Machine learning model to give a recommendation of categories to the user when the user is submitting any ticket. Improved this model using character-based CNN. This model increased the score by 14%.
  - **Battery Risk Prediction -** Given a set of parameters of a battery, we predicted the risk of the battery. The risk is defined as the number of days before the battery becomes a bad battery. I trained an SVM model to predict whether Battery is bad or not (Binary Classification). If it is not bad, I trained XGBoost regression to predict the number of days. I used the F1 score plus (1-MRAE) as a metric to evaluate.

TECHNICAL SKILLS

- **Technologies/Tools**: TensorFlow, Numpy, Pandas, Scikit Learn, spaCy, Scipy, NLTK, Keras, Seaborn, Matplotlib

- **Languages**: Python, C, R (Basics), MATLAB(Worked on signal processing in my undergrad)

- **Databases**: SQL, Oracle, SAP-HANA

BLOG

- I am writing some blogs on machine learning concepts. You can check that in https://udibhaskar.github.io/practical-ml/

Education

- **Gayatri Vidya Parishad College of Engineering (A)** Vizag, India
  Bachelor of Technology in Electronics and communication Engineering; % of marks - 81.20% Aug. 2012 – Apr. 2016

- **Sri Chaitanya jr. college** Vizag, India
  Intermediate Education ; % of marks - 95.3% July 2010 – Apr. 2012

- **Zilla Parishad High School** P.L. Puram, India
  Secondary School Education ; % of marks SSC - 89.16% Apr. 2010

Achievements

- Secured State 7th rank in 11th state level mathematics talent test conducted by Ramanujan Mathematics Club, salur
- Topped Wipro PRP Training (Initial training in ML while joining)
- Received 1st prize in Robo Cricket - a robot competition conducted by GITAM university on occasion of GUSAC
- Received 3rd prize in Yantralaya - a hardware expo conducted by G.V.P.C.E
- Secured consecutively Mandal 1st in Mathematics and Science Talent Test conducted by Z.P.H.S Chapara in 2008-2009 & 2009-2010
- Received National Means cum Merit Scholarship - This is based on Mental Ability Test and Scholastic Aptitude Test