

Keynote Lecture-3

Towards Abstractive Summarization

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In this talk, I will be sharing our research journey of building summarization engines to produce various flavors of summaries. Starting from single document summarization, our experience of building multi-document summarization (MDS), query focused MDS, Update or Progressive summarization, guided summarization, comparison summarization and personalized summarization systems can be seen as a movement from Extraction based to abstraction based summary generation. We have used variations of Relevance Based Language Model (RBLM) along with external knowledge sources, dependency parsing and more recently deep learning techniques in building these systems. Since 2006, our team has consistently performed well and ranked as a top team in various tracks of DUC (Document Understanding Conference) and TAC (Text Analysis Conference) conferences conducted by NIST. I will also discuss our recent attempts to create semi-abstractive summarization models using natural language processing based approaches as well as deep learning based approaches.