

Amey Ambade

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EDUCATION

Columbia University	<i>New York, New York</i>
Master of Science in Computer Science (Machine Learning Track)	Aug 2017 - Dec 2018
Indian Institute of Technology , CGPA: 8.2/10.0	<i>Indore, India</i>
Bachelor of Technology in Computer Science and Engineering	Jul 2013 - May 2017

TECHNICAL SKILLS

Programming Languages	Python, R, Java, Golang, SQL
Tools & Technologies	TensorFlow, Keras, scikit-learn, Dataiku, Linux, Git, LaTeX
Relevant Courses	Machine Learning, Computer Vision, Natural Language Processing, Deep Learning, Software Engineering, Data Structures and Algorithms

PROFESSIONAL EXPERIENCE

Schlumberger	<i>Houston, Texas</i>
<i>Data Scientist, SIS Production Analytics Team</i>	Mar 2019 - present

- Developing machine learning models and designing software and data architectures for Well Portfolio Optimization for a major oil company in Malaysia.
- Built orchestration workflows, performed data analysis and designed machine learning models using Python, R and Dataiku for a smart surveillance project for the national oil company of Kuwait, improving efficiency by over 25% and saving over \$1 million.
- Built an image-based fault detection and identification tool for rod pump surface dynacards modeled using Python and Keras, and deployed with Docker and Kubernetes.

Schlumberger	<i>Houston, Texas</i>
<i>Data Scientist Intern, Enterprise Solutions Team</i>	Jun 2018 - Aug 2018

- Automated tool monitoring by developing a deep learning-based model in Keras to detect and classify levels of erosion in drilling and measurement tools.
- Improved inventory control by developing LSTM models to predict cracking from time-series data of drill sensors.
- Designed a health analyzer application using Python to predict magnet subsystem sensor failures for offshore rig tools to aid experts on oil rigs.

Ecole Internationale des Sciences du Traitement de l'Information (EISTI)	<i>Paris, France</i>
<i>Software Engineering Intern, Information Systems Department</i>	May 2016 - Jul 2016

- Enhanced usability and maintainability of AREL, an e-learning platform used by over 1500 French students and alumni by refactoring database schema with 250+ tables.
- Modeled and implemented methods to extract data from Oracle databases using Hibernate ORM for Java.
- Developed SQL scripts for data extraction and helped restructure the web app using the Spring framework in Java.

PROJECTS

Legal Claim Prediction Software , Columbia University	Sep 2018 - Dec 2018
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- Developed NLP software to predict the outcome of contractual damage lawsuits to benefit academics in debates, parties in drafting contracts, counsel in pre-trial exchanges and judges in rulings.
- Performed named entity recognition and pattern matching on 10000+ cases from legal databases (Westlaw, Bloomberg) with AWS Comprehend and applying machine learning techniques to make predictions.

Contextual Neural Attentive Recommendation Machine , Columbia University	Jan 2018 - Apr 2018
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- Improved session-based recommendations for e-commerce scenarios where user profiles are invisible by building a deep learning-based architecture using an attention mechanism and context information of user actions.
- Built a deep learning-based architecture to improve session-based recommendations for e-commerce scenarios where user profiles are invisible using an attention mechanism and context information of user actions.
- Achieved a 3% improvement in Recall and MRR scores over present baseline methods on the YouChoose dataset.