

Dhruv Kumar

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EDUCATION	Indian Institute of Information Technology Allahabad , U.P., India B. Tech.(Hons) in Information Technology	Jul 2012- Jun 2016 GPA: 8.68 / 10.00 (9.07 - Last 2 years)
SKILLS	Relevant Coursework - Information Retrieval, Artificial Intelligence, Natural Language Processing, Cognitive Process Modelling, Optimization Techniques, Data Mining, Probability & Statistics, Mathematics(I, II, III). Languages - C, C++, Python, Java, Javascript, HTML, PHP and SQL. Libraries - Tensorflow, Keras, Gym, Scikit-Learn, NLTK, Pandas, matplotlib, OpenCV and d3.js Frameworks - AngularJS, Node.js, MongoDB, Flask, Spring, MyBatis and Struts	
EXPERIENCE	Arcesium(DE Shaw Group) , Hyderabad, India Software Engineer <ul style="list-style-type: none">Working as a full stack engineer, designing Fund and Investor Accounting solutions in Hedge Funds.Member of the team to onboard J.P.Morgan onto the platform. Universität Paderborn , Paderborn, Germany Studentische Hilfskraft(Student RA) at Analytic Information Systems and Business Intelligence Lab (AIS-BI) <ul style="list-style-type: none">Bachelor's Thesis: "Compressed Knowledge transfer via Factorization Models in Recommender Systems". Developed an algorithm to incorporate metadata in Factorization Machines, thus improving their accuracy.Face recognition in videos: built a web application on top of Microsoft's Project Oxford. Citigroup , Pune, India Software Engineering Intern <ul style="list-style-type: none">Trading Controls application for Equities Team using MEAN stack and d3. Was given a full-time offer.	Jul 2016-Present Jan 2016-Jun 2016 May 2015-Jul 2015
PUBLICATION	"Inclusion of Semantic and Time-Variant Information Using Matrix Factorization Approach for Implicit Rating of Last.Fm Dataset," in <i>Springer Berlin Heidelberg - Arabian Journal of Science and Engineering</i> May 2016.	
ACADEMIC PROJECTS	Analysis of Time Aware and Semantic Feature Based Music Recommender System Jul 2015 - Nov 2015 <ul style="list-style-type: none">Proposed a semantic-Joint Matrix Factorization approach to incorporate semantic(geographic) and time based information for items in addition to user's implicit feedback to enhance the accuracy of the model. Information Extraction and Sentiment Analysis Jul 2014 - Nov 2014 <ul style="list-style-type: none">Applied NLP and graph propagation algorithms to predict and rate five most popular features of any item using Amazon user reviews which were filtered through a Naïve Bayes spam filter. Faculty Feedback Portal Jan 2013 - Apr 2013 <ul style="list-style-type: none">Developed an institute wide web based application where students could anonymously give feedback about faculty, replacing the existing offline activity. Graphically summarized the feedback for the faculty to view.	
PERSONAL PROJECTS	RL agents on OpenAI Gym (Ongoing) Applying Reinforcement Learning methods like Policy Gradient and Q-Learning with Neural Networks to learn Open Gym environments like Cartpole, MountainCar and Pong. Time Series Forecasting Used LSTM on Google's stock prices of 5 years to learn from multiple variables and then predict the stock price given the data of last 20 days. Learning the writing style Implemented a character level RNN model from scratch which learns writing style from my Bachelor's Thesis. Android Application for Effervescence 2014 Lead a team to design and develop the first ever <i>Android Application</i> for our annual festival Effervescence.	Aug 2017 - Present Jun 2017 - Jul 2017 Apr 2017 - May 2017 May 2014 - Aug 2014
ACHIEVEMENTS & EXTRA-CURRICULAR	<ul style="list-style-type: none">Stood in the top 0.2% in the All India Engineering Entrance Examination 2012.Worked as the Events Head of the annual cultural cum technical festival <i>Effervescence</i> 2014.Represented the college band as a drummer in various events.	