

# Noveen Sachdeva

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## Education

**B.Tech. and M.S by Research**, Computer Science and Engineering 2015 - Ongoing (expected 2020)

International Institute of Information Technology - Hyderabad, India (IIIT-H)

CGPA - 8.68/10

Dean's Award for Academic Excellence: Top 10% of batch (2018)

Dean's Research Award: For exceptional undergraduate research work at IIIT Hyderabad (2018)

## Work Experience

**Data Science Intern at PwC, USA** Aug '18 - Present

- Working with the data science and innovation team based out of Tampa, Florida, USA.

**Research Intern at ICAR-CNR, University of Calabria, Italy** May '18 - Jul '18

- Working on building novel recommender systems with [Dr. Giuseppe Manco](#) at the Advanced Analytics on Complex Data Lab, ICAR-CNR (National Research Council of Italy), located inside the University of Calabria.

**Undergraduate Research Student at Data Science and Analytics Lab, IIIT-H** May '17 - Present

- Part of research team working on Recommender systems using Deep Learning models, under [Dr. Vikram Pudi](#)

**Google Summer of Code at ownCloud GmbH.** May '17 - Aug '17

- Implemented a JavaScript library covering ownCloud APIs, working both in browser and Node.JS.

**Google Code In Mentor at JBoss Community, Redhat** Dec '17 - Jan '18

- Guiding participants in solving byte-sized tasks in Python, JavaScript and HTML

**Web System Administrator at IIIT Hyderabad** Aug '17 - Jul '18

- Maintaining the server used by IIIT students for meals' registration and canceling (Used by ~2000 students)

**Teaching Assistant at IIIT Hyderabad**

- Data Warehousing and Data Mining (CSE445) Monsoon 2018

## Publications

- Sequential Variational Autoencoders for Collaborative Filtering** [Notified]

Noveen Sachdeva, Giuseppe Manco, Vikram Pudi - ACM Conf. on Web Search & Data Mining (WSDM '19)

- Attentive Neural Architecture Incorporating Song Features For Music Recommendation** [Link]

Noveen Sachdeva, Kartik Gupta and Vikram Pudi - ACM Conference on Recommender Systems (RecSys '18)

- Explicit Modelling of the Implicit Short Term User Preferences for Music Recommendation** [Link]

Kartik Gupta, Noveen Sachdeva and Vikram Pudi - European Conference on Information Retrieval (ECIR '18)

## Major Projects

**Deep Learning for Next basket Recommendation** Research Project under Dr. Vikram Pudi Sep '17 - Dec '17

- Implemented a NN-Rec model for next-basket recommendation given purchase history of a user.

**Scientific Article Recommendation** Research Project under Dr. Vikram Pudi Jan '18 - Apr '18

- Use article content and user read history to recommend scientific articles to users.

**Deep Learning for Language Modeling** Intro To ML Course Project under Dr. Vineet Gandhi Nov '17 - Dec '17

- Implemented a CNN+LSTM model for extracting word and character level features from text

**Kaggle - Zillow's Home Value Prediction** Course Project under Dr. Vikram Pudi Oct '17 - Nov '17

- Used Feature engineering and decision trees stacked with a neural net for regression, best rank: 260/3779.

## Achievements & Responsibilities

- Reviewer for the 33<sup>rd</sup> AAAI Conference on Artificial Intelligence (2019)

- Reviewer for the IEEE's International Conference on Data Mining (ICDM) (2018)

- Qualified for ACM ICPC Asia Onsite Regionals 2017-18 Online: 95<sup>th</sup> (out of 3000+ teams)

## Relevant Courses

Advanced NLP

Introduction to Machine Learning

Artificial Intelligence

Data Warehousing and Data Mining

Advanced Algorithms

Linear Algebra

Distributed Systems

Database Systems

Operating Systems

## Technical Skills

**Programming Languages :** Python, C++, C, JavaScript, MATLAB, PHP, Bash Scripting

**Deep Learning Libraries :** PyTorch, Keras, Tensorflow (Basic)

**Miscellaneous :** MySQL, Git, L<sup>A</sup>T<sub>E</sub>X, Neo4j (Basic), EER Modelling, Vim