

# Pavan Chhatpar

Boston, MA, USA | [chhatpar.p@northeastern.edu](mailto:chhatpar.p@northeastern.edu) | (857) 930-1785  
[linkedin.com/in/pavan-chhatpar](https://www.linkedin.com/in/pavan-chhatpar) | [github.com/pavanchhatpar](https://github.com/pavanchhatpar) | [pavanchhatpar.me](https://pavanchhatpar.me)  
Available: **Starting Dec. 2020**

## EDUCATION

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**Northeastern University**, Boston, MA  
**Khoury College of Computer Sciences**

*Candidate for Master of Science in Computer Science*, Current GPA: 4.0/4.0  
Related Courses: Algorithms, Machine Learning, Spec. Topics in AI,  
Information Retrieval, Programming Design Paradigms

September 2018 – Present  
Expected graduation: Dec 2020

**University of Mumbai**, Mumbai, India

**Vivekanand Education Society's Institute of Technology**

*Bachelor of Engineering in Computer Engineering*, GPA: 8.99/10.0

Related Courses: Machine Learning, Discrete Math, Analysis of Algorithms,  
Calculus, Data Structures, Data Warehouse and Mining

May 2018

Activities: Technical Officer at Computer Society of India, Executive Head for Praxis

## TECHNICAL KNOWLEDGE

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**Languages:** Python, Java, C, C++, Julia, PHP, Node.js, TypeScript, JavaScript, HTML, CSS

**ML & Data Pipeline Tools:** TensorFlow, sklearn, XGBoost, PyTorch, Weka, Spark, Airflow

**Databases:** MySQL, Hive, Vertica, MongoDB, MS SQL, Oracle, SQLite

**Operating Systems:** Windows, Linux (Ubuntu, Mint), Mac OS

**Software & Frameworks:** Android Studio, IntelliJ IDEA, Octave, Unity, Angular

## WORK EXPERIENCE

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**Honeywell**, Atlanta, GA

June 2020 – Aug 2020

*Data Science Intern – Industrial Analytics*

- Used NLP to gain insights from legal contracts about measuring supplier performance
- Researched various applications of those insights that would help optimize supplier partnerships

**Wayfair**, Boston, MA

May – Dec 2019

*Data Science Co-op – B2B/Sales/Service team*

- Developed Survival Analysis Models on large scale time-series data using recurrent neural networks in Python
- Employed language representation deep neural net models like BERT for text data embedding
- Engaged in stakeholder meetings to leverage their domain knowledge in feature engineering

**dotin**, Fremont, CA (*work from home*)

March – June 2018

*Software Engineer Intern – Machine Learning*

- Developed ML training, testing and predictor modules with pipelining using Python, Julia, and Java.
- Contributed in maintaining data collection through Amazon Mechanical Turk.

**Digital Vibes**, London, UK (*work from home*)

June 2015 – January 2018

*Full-stack Developer Intern*

- Led client projects to deploy cross platform solutions using Node.js, Angular, React Native, NativeScript, and Electron.
- Assisted testing team with unit testing and E2E testing, ensuring elimination of all bugs and errors.

## ACADEMIC PROJECTS

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**Deep Question Generation on SQuAD dataset**

Master's Project, Northeastern University

Jan 2020 – Apr 2020

- Developed a deep neural network that generates questions given a paragraph and an answer within it, using TensorFlow 2.
- Employing copy mechanism, the generated questions could get answers with an F1 score only 18% lesser than original ones.

**The precision of case difficulty and referral decisions: an innovative automated approach**

Nair Hospital and Dental College, Mumbai, India

May 2017 – Aug 2019

- Developed an ML solution with a team of dentists to predict difficulty of an Endodontic case prior to treatment using TensorFlow and sklearn with a sensitivity score of 94.96%.
- Published in Clinical Oral Investigations, Springer, Aug. 2019

**Vehicular Traffic Abatement**

University of Mumbai, Mumbai, India

March 2017 – May 2018

- Developed a solution to vehicular traffic using neural networks in a team of four facilitating users with prediction of vehicular traffic based on time and location, with an accuracy of 90.73%.
- Published the project work as two phases in IEEE, Nov. 2018 and in IJRASET Volume 6, July 2018.

## INTERESTS/ ACTIVITIES

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- Published an android app on Google Play Store, with over 10,000 downloads, to help students in managing attendance.
- Contributed to a research on IoT in hospitals, which was published in Procedia Computer Science, Vol. 152, Elsevier.
- Won 2nd prize in final year project competition at undergrad college.
- Participated in various events on photography, singing, and roller skating.