

Atish Pawar

🏠 192-B Woodridge Crescent, Ottawa, Ontario K2B7S9

✉ atishpawar92@gmail.com 📞 807-356-1837

🌐 [linkedin.com/in/atishpawar](https://www.linkedin.com/in/atishpawar)

🐙 github.com/atishp

🔗 Google Scholar

Education

Lakehead University

Master of Science in Computer Science

Thunder Bay, Canada

Sept. 2016 – Sept. 2018

- Thesis: Semantic similarity between words and sentences using lexical database and word embeddings

Walchand Institute of Technology

B.Eng.in Computer Science and Engineering

Solapur, India

Aug. 2010 – Jun. 2014

Skills

- **Programming Languages:** C, C++, Python, Java, SQL
- **Web technologies:** HTML, CSS3, AJAX, JavaScript, XML, MVC architecture, jQuery
- **Tools and frameworks:** \LaTeX , NLTK, Docker, Anaconda, Git, Jira, Jupyter Notebook, AWS, Azure, Bootstrap, Scipy, Numpy, TensorFlow, Keras
- **Concepts:** Agile-Scrum, REST APIs, Automation, Cloud, System Design

Work Experience

Canada Revenue Agency — IT Developer/Analyst

Jan. 2020 - Present

- Charlie the Chatbot (Azure, Nodejs, Python)
 - Coordinated a small team to develop and maintain the chatbot, and monitored sensitive issues, analysed and solved complex errors to improve the availability to 99%
 - Designed an automated testing framework in python to determine the chatbot accuracy following new changes in each iteration and redesigned chatbot knowledge bases to increase the accuracy from 79% to 89%
 - Set up a DevOps pipeline on Azure DevOps to migrate code from dev to test to prod by incorporating multiple approval gates and notifications system
 - Designed an analytics dashboard in PowerBI to generate weekly chatbot analytics report for clients to make data-driven decisions
 - Recognized for outstanding display of Teamwork for dedication and support in enhancing Charlie, the CRA chatbot, in response to COVID-19 situation
- Online Chat Options Analysis
 - Leading team of 7 to conduct options analysis between AWS (Amazon Connect) and Azure (MS Dynamics), produced options analysis criteria in details to cover various aspects for the end-to-end chat solution
 - Set up agile JIRA project, produced product backlog items, conducting daily scrum meetings
 - Interacting with stakeholders from ABSB, CSMD to provide continuous progress, recommendations, and integrating suggestions
- Artificial Intelligence & Machine Learning research (AWS, Python)
 - Leading a team of four to conduct AI & ML research on AWS cloud platform; organized and conducted meetings to establish project plans
 - Researched and documented AWS machine learning services by identifying sensitive and confidential issues, operations according to the CRA standard
 - Outcome of the research is three artificial intelligence prototype projects: a. ITSM tickets data science project b. Audio/Video Transcription c. Automatic text summarization
- HR initiative (Azure, Python, Jupyter Notebooks)
 - Developed Natural Language Processing algorithm using word2vec algorithm to determine the semantic similarity between candidate's job description and CRA job description for ITAP stream
 - Achieved accuracy of 95% outperforming existing cutting-edge algorithms
- Contributed to ML architecture design at the agency by identifying inter-project dependencies
 - Reviewed and created the architectural documents, suggested tools and technologies for AI & ML implementation and conducted sessions on AI & ML to spread awareness across the agency
 - Mentored two interns, suggested project idea to optimize tax calculations according to income and province and helped to successfully deploy the project on Azure platform

Lakehead University — Programmar

May. 2019 - Dec. 2019

- Consulted with Deans of Engineering departments(clients) to produce and finalize the project requirements following agile methodology to precisely establish project scope, tasks, business cases and developed a web application for university accreditation system to upload, store and retrieve approximately 10,000 documents and organized them in a tree structure for better visualization and navigation
- Maintained the Lakehead University Engineering department website, provided urgent operational support to make changes and designed new web-pages in wordpress
- Automated data extraction and analysis of transcripts using Python saving manual and repetitive efforts

Intrideo — Software Engineer

Jan. 2019 - May 2019

- Developed two dynamic search functionalities using ajax and service layer controller of the web application
- Built a feature to report inappropriate videos uploaded to the Intrideo web app
- Researched and created an Artificial Intelligence feature to identify ethnicity to determine overall diversity among job applicants
 - Technologies: C# .NET core, Transact-SQL, Azure DevOps, Python

Infosys Limited — Senior Systems Engineer

Jun. 2014 - Aug. 2016

- Automated document extraction from 15 public court websites using web scraping, engineered document processing, text extraction and storage
- Implemented universal ASCII character detection system by extracting texts from PDF documents and integrated it with the primary system improving system performance by 10%
- Scheduled, developed and tested components of an order management system for two consecutive software releases
- Performed various code redesigns, participated in architecture and scalability improvements and closely worked with the client team to formalize business requirements and subsequently converted it into IT tasks
 - Technologies: Perl, Python, Java, Unix, SQL, Git

Publications

Semantic similarity between Learning Objectives and English sentences

Research Assistant, Lakehead University

Jul. 2017 – Aug. 2018

- Article has been published in **IEEE Access journal, Impact factor: 3.557**
- Technologies: Python, Linux, Git

Automating Articulation

Research Assistant, Lakehead University

Feb. 2018 – Oct. 2018

- Applying Natural Language Processing to Post-Secondary Credit Transfer
- Article has been published in **IEEE Access journal, Impact factor: 3.557**, Second Author

Projects

- Master's thesis: Semantic similarity between words and sentences using lexical database and word embeddings: <https://bitbucket.org/atish2323/thesis/src/bitbranch/>
- Bachelor's final project, A recommendation system: <https://github.com/atishp/RecommendationSystem>
- Twitter sentiment analysis using R: Analysed 20,000 tweets for two topics and concluded after applying multiple filters <https://github.com/atishp/Twitter-sentiment-analysis>
- Multimedia database system and Image Retrieval using Python, PostgreSQL: <https://github.com/atishp/MMDB-and-IR>

Achievements & Awards

- CIO Community Award and Outstanding Team player award at CRA