

Nishant Teckchandani

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EDUCATION

- **Middlesex University**
Bachelor of Science in Information Technology: First Class Honors October 2016 – May 2018
- **Georgia Institute of Technology**
Bachelor of Science in Electrical Engineering Partial Completion
August 2009 – December 2012

PUBLICATIONS

- Seeam, P., Teckchandani, N., Booneyad, H., Torul, V.P. and Seeam, A., 2018, December. **Employment Law Expert System**. In *2018 International Conference on Intelligent and Innovative Computing Applications (ICONIC)* (pp. 1-6). IEEE.

EXPERIENCE

- **Aberystwyth University** Mauritius
Research Assistant July 2018 - October 2018
 - Conducted research and developed an Expert System that assists Mauritian citizens with information on Employment Laws and issues.
 - Utilized Artificial Intelligence, Machine Learning, and NLP techniques such as Deep Neural Networks, and word tokenizing.
 - Submitted a research paper that was accepted to the 2018 ICONIC (International Conference on Intelligent and Innovative Computing Applications) conference (See Publications Section)

Key project: Employment Law Expert System Project

 - Developed an expert system using government literature, "Understanding Employment Law and Remuneration Orders in Mauritius", by VP Torul, as a knowledge base.
 - Categorized data from the knowledge base into a JSON file as intents that provide context and meaning to user's queries.
 - Utilized Deep Neural Networks, TFLearn and Python to extract knowledge from literature and seek user inputs.
 - Built and deployed a web interface using FLASK server, and implemented Speech Recognition and Synthesis.
- **JK Innovative Solutions** Mauritius
Software Developer Intern May 2017 - October 2018
 - Deployed ERP and POS mobile solutions for retail and manufacturing clients to increase process efficiency by 10%+.
 - Handled end-to-end project management including assessment, development, testing, documentation and troubleshooting.

Key project: Poultry Processing Plant Product Traceability System

 - Created and implemented Serial Shipping Container Code system for a leading poultry processing plant in Mauritius (ARR \$121 Mn+).
 - Developed Intermec Mobile Device (CN70) software using .NET Framework and Oracle Database.
 - Developed a web interface using ASP.NET, Bootstrap, and JavaScript for organized input, display and deletion of barcode label prices.
 - Successfully tested and deployed the Intermec device and interface with a 10 member team.
 - Improved trace-ability and accuracy of product logistic reports by 40% through better data streams and by enabling faster decision-making.
 - Increased poultry processing and packaging productivity by 10% by eliminating manual record keeping of product information.
- **Middlesex University Final Year Project** Mauritius
AIML and Seq-to-Seq Models to Build Artificial Intelligence Chatbots: Comparative Analysis October 2017 - May 2018
 - Conducted literature review of 10+ existing technologies used to create chatbots, and shortlisted 2 for development.
 - Developed one chatbot using Artificial Intelligence Mark-up Language scripts to capture keywords from user input.
 - Implemented Deep Learning techniques (Recurrent Neural Networks) for the second chatbot with a Sequence-to-Sequence Model and Tensorflow Library.
 - Utilized glass box and black box methods to evaluate chatbot performance.
 - Submitted a research paper that was accepted to the ELECOM 2018 Conference and is currently being processed by Springer LNEE for publication as a book chapter.
- **Convergys Ltd.** Pune, India
Customer Support Associate I December 2015 - September 2016
 - Provided resolution support to New York health care providers, regarding pending claims.
 - Collaborated with the internal audit team to analyze error causes and conducted training sessions to improve quality by 5%.

SKILLS

- **Programming Languages:** Python, C#, JavaScript, MATLAB, PHP, C, Java
- **Databases:** MySQL, Oracle, SQLite
- **Softwares/Libraries/Frameworks:** .NET Framework, AIML, Bootstrap CSS, CSS, HTML, Justinmind Prototyper, jQuery, LAMP, Microsoft Office, NetBeans, Phaser Game Framework, PuTTY, Sublime Text Editor, Tensorflow, Visual Studio, Wireshark, XAMPP, XML
- **Certifications:** Google Mobile Sites Certification (Feb 2018 – Feb 2019)
- **Languages:** Fluent in **English**, Conversational in **Japanese**, Native Proficiency in **Hindi**, Beginner level in **French**