

# NISHANT KISHAN TECKCHANDANI

nishkt@vt.edu — (540) 824 8842 — linkedin.com/in/nishkt — Github: nishkt

## EDUCATION

Virginia Tech, Blacksburg, VA | *MEng in Computer Science and Applications*

May 2023

Middlesex University, Mauritius | *BSc in Information Technology: First Class Honors*

June 2018

## SKILLS

**Programming:** Java, C#, Python, Matlab, JavaScript    **Databases:** (Relational) MySQL, Oracle, SQLite, SQL Server

**Frameworks/Technology/Software:** Xamarin, Flutter, Tensorflow, Google Cloud, REST API, Microsoft Office, Wireshark, HTML, CSS

**Languages:** Business Proficiency in **Japanese**, Native Proficiency in **Hindi**, Beginner level in **French**

## EXPERIENCE

Virginia Tech Libraries

Blacksburg Virginia

*Metadata Assistant*

October 2021 - Present

- Catalogued and analyzed library resources to improve data interoperability across the library through metadata production services, software development support, and metadata strategy

JK Innovative Solutions (JKIS)

Pune, India/Mauritius

*Software Engineer*

November 2018 - August 2021

*Software Developer Intern*

May 2017 - October 2018

- Deployed mobile and web solutions for retail and manufacturing clients to increase process efficiency by 20%+ across projects
- Handled end-to-end project management including assessment, development, testing, refactoring, and documentation

Key project 1: Ecommerce platform

- Led a team of 3 engineers to develop a cross-platform ecommerce mobile app (Flutter) for traveling technicians to view sales orders and delivery routes, and for client's end-customers to place orders to enable contactless delivery during the pandemic
- Implemented REST APIs with a Google Cloud backend to share resources from the client's CRM and other information systems

Key project 2: Asset/Ticket/Invoicing/Quality Check Management Mobile Application

- Developed an offline compatible cross-platform mobile app (Xamarin Forms) that records and syncs company's salesforce activity data with its CRM and ERP systems
- Customized the mobile application for 6 companies to provide sales/renting/maintenance services of products for their clients

Key project 3: Poultry Processing Plant Product Traceability System

- Led a team of 2 IT engineers, 2 poultry managers, and 40 poultry staff to implement a Serial Shipping Container Code system used by a leading poultry processing plant in Mauritius (ARR \$121 Mn+) to track production and fulfillment
- Developed mobile and web interface for scanning product barcodes and save/display product details; worked with the product and executive team to conceptualize and roll out the system
- Improved traceability and accuracy of product logistic reports by 40% with better data streams enabling faster decision-making
- Increased poultry processing and packaging productivity by 10% by eliminating manual record keeping of product information

Aberystwyth University

Mauritius

*Research Assistant*

July 2018 - October 2018

- Developed an employment law expert system using government literature, "Understanding Employment Law and Remuneration Orders in Mauritius" as a knowledge base, to assist Mauritian residents with Employment Law queries
- Built a predictive analytics system by utilizing Neural Networks, NLP, and Tensorflow to extract data from literature and predict outputs from user inputs, resulting in a publication with [IEEE](#)
- Built and deployed a web interface using a FLASK web server, and implemented Speech Recognition/Synthesis with Google APIs

Middlesex University

Mauritius

*Final Year Project, Comparative Study of 2 chatbots*

October 2017 - June 2018

- Developed one chatbot using Artificial Intelligence Mark-up Language (AIML) scripts to capture keywords from user input
- Implemented Deep Learning techniques (Recurrent Neural Networks) using Tensorflow for developing the second chatbot, to ease the process of admissions for prospective or potential students
- Evaluated chatbot performance based on 3 metrics (user satisfaction, information retrieval rate, and task completion rate), resulting in a publication with [Springer](#)

## Campus Involvement

Virginia Tech Career and Professional Development Center

Blacksburg, Virginia

*Hokie Mentorship Connect Ambassador*

September 2021 - Present

- Initiated outreach process of helping graduate student enter the Hokie Mentorship Connect, a platform for students to connect with alumni and get career support via mentorship