NISHANT KISHAN TECKCHANDANI

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EDUCATION

Virginia Tech, Blacksburg, VA | *MEng in Computer Science and Applications: GPA: 4.0* *May 2023*
Middlesex University, Mauritius | *BSc in Information Technology: First Class Honors, GPA: 3.71* *June 2018*

SKILLS

Programming/Technical Skills: Java, Python, C#, JavaScript, SQL, MySQL, Oracle, SQLite, SQL Server, Tensorflow, Google Cloud, AWS, SAS, Xamarin, Flutter, REST API, Microsoft Office, HTML, CSS, JUnit, Github, Git, OOPS, JUnit, .NET MVC, JQuery, NumPy, PyTorch
Languages: Business Proficiency in **Japanese**, Native Proficiency in **Hindi**, Beginner level in **French**

EXPERIENCE

Virginia Tech Controller's Office **Blacksburg, Virginia**
Graduate Assistant *January 2022 - Present*

- Analyze data, via SAS and SQL, on accounting and finance operation processes to develop metrics and propose improvements that eliminate barriers, unnecessary workflows, and duplicative or redundant efforts
- Assist in implementing business process improvements through preparation of documentation, reference materials, desktop applications, and communicating changes to Controller's Office employees about the improved processes

Virginia Tech Libraries **Blacksburg, Virginia**
Metadata Assistant *October 2021 - January 2022*

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

JK Innovative Solutions (JKIS) **Port Louis, 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 **Flic En Flac, 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 **Flic En Flac, 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