Krishna Murthy Surya Narayanan

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WORK EXPERIENCE

NamSys Inc., Toronto, Canada | *Software Developer* **Nov 2021 - Present**

- Developed on-prem and web systems for working with **Cash flow management** in bank and armored carriers.
- Enhanced project design to automate data population to reduce human errors while improving product efficiency by **35%.**
- Designed & developed viable enhancements to make the product more **customer centric** resulting in new client onboarding by **50%.**

SaskTel, Regina, Canada | *Web Developer-Co-op* **May 2021 - Sep 2021**

- Built highly scalable Sentiment Analysis model to understand the review sentiment of customers for different products using **word-to-vector** training model with TF-IDF tweaking to improve accuracy to 85%.
- Created a data stream using Kafka and ingested the data into a **time series database** (InfluxDB).
- Developed **SharePoint** websites and **Nintex** workflows to support both business and client communications.

Accenture, Hyderabad, India | *Associate Software Engineer* **Mar 2018- Sep 2019**

- Worked extensively with **TDD** to maintain code quality and gained hands-on **DevOps** experience, in building and deploying applications to production using Jenkins and Git.
- Built applications and features for products majorly based on Java, **spring MVC**, JavaScript, and JSP.
- Developed a dashboard to map summary indices for timely metrics monitoring using **DB2 and Grafana**.

National Institute of Technology, Karnataka, India | *Research Assistant-Internship* **Apr 2017 – July 2017**

- Developed a Music Mood Estimated model using Feature Extraction in Matlab. The model predicts the mood of the song played using **Random Forest** and **Naïve Bayes** classifiers.
- Performed correlation analysis to reduce the feature set that supplements a recommendation system.

Defence Research and Development Org., Hyderabad, India | *Test Engineer-Internship* **Oct 2016 – Dec 2016**

- Developed **REST APIs** and actively debugged the Navigation and Propulsion systems using **Postman** to identify issues in the service layer for efficient performance.
- Trajectory control and **dynamic reprogramming** were focused on producing good functional outcomes.

TECHNICAL SKILLS

Languages:	C, C++, Java, JavaScript, Python, SQL, HTML, and CSS.
Python Libraries:	NumPy, Pandas, NTLK, OpenCV, PyTorch, and Matplotlib,
Machine Learning:	Regression, Classification, Clustering, and Natural Language Processing (FastText, BERT)
Development Tools:	Git, Jupyter Notebook, VS Code, Eclipse, Matlab, MS Visio, Weka, Nintex, and SharePoint.
Cloud/Databases:	Microsoft Azure, Docker, Kafka, Grafana, MySQL, PostgresSQL, MongoDB, and InfluxDB.

EDUCATION

University of Regina, Regina, SK **May 2021**
Master of Science in Computer Science | ***Cumulative GPA: 3.90/4.0***

GITAM University, Visakhapatnam, India **June 2018**
Bachelor of Science in Computer Science | ***Cumulative GPA: 8.6/10.0***

PROJECTS

Tokyo Olympics medal prediction | *Python, Pandas, Numpy, scikit-learn, Random Forest* **Apr 2021 – July 2021**

- Developed a **Random Forest** regression model for categorical data analysis to predict the number of medals an individual with a given set of attributes can win at the ongoing Tokyo Olympics 2020.
- Enhanced the model by using **Simple Imputer**, **Label Encoder**, and mathematical operations supported by Numpy.

Personalized eye-wear shopping | *Django, Python, SQL, OpenCV, NumPy, Image Processing* **Jan 2021 – Mar 2021**

- Developed an efficient eye-wear recommendation system for online shoppers based on their facial shape.
- Programmed **OpenCV** for face detection and dlib for face landmark detections.

UAV based data communication using WSN | *Regression, Python, SQL, NumPy* **May 2020 – Aug 2020**

- Developed a robust UAV flight path suggestion model for efficient data transfer from **Sensor** and **Relay** Nodes.
- Discovered that a UAV moving at a constant velocity with changing altitude results in faster and accurate data transfer than a hovering UAV.
- Devised a **regression-based** algorithm to predict the best flying path for a UAV (PSO was performed).

ACHIEVEMENTS & PUBLICATION

- **Published a paper** titled "UAV-based data communication using Wireless Sensor Networks" at ICISS 2021.