Prabhasa Kalkur

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Supply Chain Business Processes Consultant at SAP America, Inc. since Jun 2021. On H-1B Visa since Oct 2022.

EDUCATION

Master of Science in Electrical Engineering, Texas A&M University (TAMU), USA. **GPA:** 3.9/4 **Dec 2020**
B.E. in Electronics and Communication, R.V. College of Engineering (RVCE), India. **GPA:** 9/10 **May 2016**

SKILLS

Languages & Tools: Python — SQL — C — Tableau — Git — NumPy — pandas — Matplotlib
SAP Tools: Integrated Business Planning (IBP) — Business Technology Platform (BTP) — Build Process Automation
ML Frameworks & Libraries: PyTorch — scikit-learn — Keras — TensorFlow — Stable Baselines 2.0 — Tensorforce

EXPERIENCE

Supply Chain Business Processes Consultant, Logistics Planning & Procurement **Apr 2022 - Present**
SAP America, Inc., Center of Expertise (CoE), Newtown Square, PA, USA

- Deliver customized supply chain planning solutions to our 'Premium Engagement' customers through SAP IBP. List of engaged customers include Johnson & Johnson, The Coca Cola Company, PepsiCo, BRP, Blue Triton.
- Work with customers to build, customize, implement, and improve their supply chain setup in SAP IBP through Proof of Concept (PoC) projects, implementation projects, and engage in services to enhance or maintain their supply chain.
- Provide expertise in specific modules: IBP for Demand, IBP for Inventory, IBP for Time-Series / Supply Optimizer.

Supply Chain Support Associate, Logistics Planning & Procurement **Jun 2021 - Mar 2022**
SAP America, Inc., Center of Expertise (CoE), Newtown Square, PA, USA

- Enhanced supply chain forecasting in SAP IBP for Demand using ML parameter optimization techniques.
- Developed an SAP BTP Application that determines best parameter values for choice of forecast model.
- Leveraged SAP Build Process Automation (i-RPA) to automate the end-to-end process.

Intern, SAP America, Inc., Newtown Square, PA, USA **Mar 2021 - Jun 2021**

- Implement a Pattern Optimizer for Tyson Foods using GurobiPy APIs, which can detect rules-based production line patterns and dynamically recommend revenue-optimized production plans (SAP IBP for Response).
- Develop a machine learning model for plan generation using Deep Reinforcement Learning techniques (TensorFlow).

Graduate Researcher, Department of ECE, Texas A&M University [GitHub] **Oct 2019 - Oct 2020**
Thesis: "Learning from Demonstrations: Applications to Autonomous UAV Landing & Minecraft"

- Taught AI models to simulate real-world tasks using imitation learning on human demo data.
- Designed a novel method of autonomous UAV landing that captures an optimal pilot's maneuvers at sea (Python).

PROJECTS

The Coca Cola Company (TCCC): Order-Based Planning (OBP), Proof of Concept, SAP America, Inc.

- Provided a supply plan for TCCC's beverage network using planned orders generated by OBP optimizer.
- Implemented many out-of-the-box solutions such as Source of Supply Selection, Periodic Lot Sizing, Fair Share, Production Wheel. Demonstrated several benefits over their current legacy solution, resulted in a license purchase.

Johnson & Johnson (J&J): Inventory Optimization, Proof of Concept, SAP America, Inc.

- Set up IBP for Inventory for two of J&Js line of businesses: Pharma and MedTech. Performed Multi-Echelon Inventory Optimization on their supply chain networks and demonstrated satisfactory inventory numbers and budget requirements.
- Resulted in successful IBP for Inventory license purchase conversion, leading to potential future implementation projects.

Classification Algorithms for Supervised Learning on Popular Datasets, TAMU [**GitHub**]

- Implemented a Naive Bayes classifier with 86% accuracy on the noisy Iris dataset (Python, Keras, scikit-learn).
- Performed classification of the noisy MNIST dataset to compare performance of SVMs with Neural Networks.
- Utilized data augmentation to improve performance, with accuracies of up to 89% for SVMs and 87% for NNs.

COURSEWORK

Optimization Theory, Probability & Statistics, Data Structures & Algorithms, Machine Learning.