SUJAY NITHISH HEMAKUMAR

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ACADEMIC QUALIFICATION

Master's in Computer Science **Jan 2025 – May 2026**
University of Illinois Urbana-Champaign, Urbana-Champaign, IL, USA
Coursework: Machine Learning, Data Management, Text Information & Data Mining

Bachelor of Engineering in Computer Science and Engineering **Aug 2018 – May 2022**
Anna University, Chennai, TN, India (GPA: 8.37/10)
Coursework: Artificial Intelligence, Operating Systems, Data Structures and Algorithms

TECHNICAL SKILLS

- **Programming:** Java, C++, Python (NumPy, Pandas), JavaScript, HTML, CSS, React, ABAP, MySQL, Linux.
- **AI/ML:** Natural Language Processing, PyTorch, Tensorflow, Scikit-learn, Regression, Model Evaluation.
- **Frameworks & Tools:** OpenCV, NLTK, Flask, MATLAB, CI/CD(Jenkins), Docker, Jira, Git.
- **Procurement and Cloud:** SAP Ariba (P2P, Ariba Network), CIG , ERP Integration (SAP ECC/S4HANA), AWS (core).

EXPERIENCE

Packaged App Development Analyst, Accenture, India **Dec 2022 – Jan 2025**
Ariba Technical Engineer

- Engineered and optimized SAP Ariba downstream processes, including Procure-to-Order, invoice reconciliation, and procurement workflows, ensuring high availability and streamlined operations for enterprise procurement.
- Developed and maintained analytical and public reports in SAP Ariba using data from P2O and invoice reconciliation modules and managed configuration updates during implementation to ensure accurate reporting and smooth data integration.
- Implemented client-specific customizations in SAP Ariba by addressing configuration issues and optimizing procurement workflows to enhance platform functionality and user experience.
- Led cross-functional collaborations with business stakeholders, ensuring seamless integration of procurement systems with enterprise financial reporting structures.

CIG Consultant

- Architected and implemented SAP Ariba Cloud Integration Gateway (CIG), facilitating seamless end-to-end procurement data exchange between SAP ERP and Ariba platforms.
- Designed and validated integration workflows in Test Central, ensuring fault-tolerant, scalable data exchange for procurement transactions, supplier onboarding, and invoice processing.
- Led the Go-Live deployment, managing a zero-downtime transition from legacy procurement systems to Ariba, with comprehensive post-deployment optimization strategies.
- Authored technical troubleshooting guides, streamlining future SAP-Ariba integration projects and enhancing maintainability.

Machine Learning Intern, Smartbridge, India **Jan 2021 – Mar 2021**

- Developed and fine-tuned machine learning models using Scikit-learn to analyze and classify project-specific datasets, supporting SmartBridge's internal analytics, reporting, and automation initiatives.
- Automated comprehensive data preprocessing workflows with Pandas, including cleaning, transformation, and feature engineering, which significantly improved data quality and reduced end-to-end model development time by over 35%.

PROJECTS & PUBLICATIONS

Bank Transaction using Face Recognition **2022**
Published in IEEE Xplore at IIHC'22

- Developed a secure banking authentication system using real-time facial recognition with Haar Cascade and CNN models. The system incorporated liveness detection, facial verification, and OTP validation to ensure multi-factor authentication. A Flask-based web interface was built with SQLite for storage and SMTP integration for automated email verification demonstrating how AI-driven biometrics can effectively replace traditional passwords, enhancing security in digital transactions.

Real-Time Drowsiness Detection System using OpenCV **2022**
Published in IEEE Xplore Digital Library at ICESC'21

- Developed an AI-powered drowsiness detection system using OpenCV and Dlib, tracking eye closure through facial landmark detection and EAR analysis. Achieved 96% accuracy with low-latency inference, enabling real-time monitoring across varied lighting conditions. Integrated an adaptive alert mechanism that triggers alarms upon detecting prolonged eye closure. Optimized the system for real-time video processing using grayscale conversion and Euclidean distance-based blink tracking.

AWARDS & ACHIEVEMENTS

- Awarded **First place** in the RMKEC Mini Project Competition for technical excellence.
- Awarded **Best Coder** in RMKEC's Coding Contest for exceptional programming skills.