KISHORE PRASHANTH

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Education

Arizona State University — **August 2023 – May 2025**
Master of Science in Information Technology — *Tempe, Arizona*

Visvesvaraya Technological University — **August 2017 – May 2021**
Bachelor of Engineering in Computer Science and Engineering — *Bengaluru, India*

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, SQL, C++, HTML, CSS
Frameworks & Libraries: React, Next.js, Node.js, Spring Boot, Flask, FastAPI, Angular, Express.js
AI/ML & Data: TensorFlow, PyTorch, scikit-learn, LLMs, NLP, Deep Learning, Pandas, NumPy, Matplotlib
Databases & Cloud: PostgreSQL, MySQL, MongoDB, Firebase, AWS, Azure, GCP, Docker, Kubernetes
Tools & Other: Git, Jira, Tableau, D3.js, Figma, Mapbox, OpenCV, OCR, REST APIs, Agile, RBAC

Professional Experience

NTT Data — **August 2021 – May 2022**
Senior Information Technology Associate — *Bengaluru, India*
- Engineered full-stack **user management system** with **RBAC** using **Java**, **Spring Boot**, **MySQL**, and **JSP**, implementing secure authentication workflows and multi-tier architecture for enterprise client deployments
- Built **CLI and GUI interfaces** for system administration, integrating comprehensive unit testing with **JUnit** and **Mockito** to achieve full test coverage and ensure code reliability across production environments
- Enhanced front-end performance of dynamic web applications using **AngularJS**, optimizing component rendering, implementing lazy loading strategies, and refactoring data-binding logic to improve page responsiveness
- Collaborated in **Agile/Scrum** teams to debug production issues, conducted code reviews, and participated in sprint planning sessions to deliver features aligned with client requirements and business objectives

IC Solutions — **September 2020 – October 2020**
Python - Machine Learning Intern — *Bengaluru, India*
- Developed predictive models using **K-Nearest Neighbors**, **Random Forest**, and **Linear Regression** in **Python** to forecast automobile pricing, performing hyperparameter tuning and cross-validation to optimize model accuracy
- Conducted comprehensive **exploratory data analysis (EDA)** on automotive datasets with **Pandas**, **NumPy**, and **Jupyter Notebook**, identifying statistically significant features and correlations that informed feature engineering decisions
- Created data visualizations using **Seaborn** and **Matplotlib** including heatmaps, distribution plots, and scatter matrices to communicate insights and support data-driven recommendations for model refinement

Projects

Smart City AI - Emergency Response System | *Next.js, FastAPI, PostgreSQL, Mapbox*
- Architected AI-powered emergency platform using **Next.js**, **FastAPI**, and **PostgreSQL** to intelligently assign emergency responders (fire, police, ambulance) based on proximity algorithms and incident classification
- Implemented **real-time geospatial tracking** with **Mapbox**, live analytics dashboards, and complete decision audit trails, deployed on **Railway** and **Vercel** with **async background task processing**

Advanced Self-Healing AI Cyber Immune Network | *Python, TensorFlow, Streamlit*
- Built production-grade cybersecurity platform achieving **99.1% malware detection accuracy** on 58,000+ real-world samples using **deep learning**, **ensemble models**, and **federated learning** with adversarial training techniques
- Integrated **explainable AI (SHAP)** with **Plotly** visualizations for interpretable threat analysis and automated **PDF report generation** using **ReportLab** for compliance documentation

Student Enrollment Information System | *Next.js, Firebase, D3.js*
- Developed secure course enrollment system with **RBAC**, **IAM policies**, **Firebase Authentication**, and **D3.js dashboards**, automating administrative workflows and reducing manual processing through cloud-based data pipelines

Awards & Certifications

Best Project Award — **November 2021**
- Secured **1st place among 50 students** for **Java-based user management system** in web application project

Best Paper Presentation Award — **January 2021**
- Recognized at **34th Computer Society of India Conference** for presenting "*RESTful API on Document Resizing, Validation, and Verification*"