

# Prasad Chandrashekar Kanade

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## EDUCATION

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### Masters of Science in Computer Science

September 2025 - May 2027

Northeastern University, Boston, USA

Courses: Machine Learning, Artificial Intelligence, Natural Language Processing, Algorithms, Distributed Systems

### Bachelor of Technology in Computer Science and Engineering

October 2020 - November 2023

Maharashtra Institute of Technology - World Peace University, Pune, India

Courses: Artificial Intelligence, Probability & Statistics, Data Structures, Software Engineering, Computer Networks

## TECHNICAL SKILLS

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- **Languages:** Python, R, SQL, Java, C++, JavaScript, C, Shell/Bash
- **AI & ML:** TensorFlow, PyTorch, scikit-learn, XGBoost, HuggingFace Transformers, LangChain, Deep Learning, Neural Networks, SHAP, SMOTE, Feature Engineering, Regression, Model Evaluation, Bayesian Inference
- **Data and Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Apache Spark (PySpark), Tableau, Power BI
- **Frameworks & Tools:** Flask, FastAPI, REST APIs, Microservices, Docker, Git, Linux/Unix, CI/CD, Google Colab
- **Cloud & Databases:** Amazon Web Services (EC2, SageMaker), PostgreSQL, MySQL, Oracle, MongoDB, Firestore

## WORK EXPERIENCE

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### Amdocs Corporation

December 2023 - May 2025

#### Software Engineering Associate

Pune, India

- Designed data pipelines processing 2M+ daily subscriber events across 10M+ accounts for JCOM's telecom platform, enabling downstream predictive analytics, statistical reporting, and machine learning model consumption.
- Built automated data validation and anomaly detection workflows using Python and Shell scripts on Linux servers, proactively flagging data quality issues in real-time pipelines and cutting production data incidents by 30%.
- Optimized Oracle database queries through execution plan analysis and composite indexing, reducing data retrieval latency by 60% and accelerating feature extraction for predictive analytics dashboards used by operations teams.

### ISKCON Organization

July 2022 - December 2022

#### Software Engineer Intern

Pune, India

- Automated infrastructure monitoring using Bash scripts and cron jobs on Unix servers, implementing alerting for system health metrics (CPU, memory, disk), saving 4+ hours weekly and reducing unplanned downtime by 25%.
- Deployed cloud-native applications on AWS EC2 with Docker containers via ECR/ECS orchestration in a Linux environment, building CI/CD workflows that reduced deployment time by 78% and maintaining 93% service uptime.

### Simba Developers Organization

March 2021 - October 2021

#### Software Developer Intern

Pune, India

- Architected distributed microservices using Node.js and Express with PostgreSQL for authentication and payment modules, enabling independent scaling and lowering failures by 65% through fault-tolerant design patterns.
- Improved application performance by 44% (3.2s → 1.8s) via profiling, state management optimization, and automation.

## PROJECTS

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### Thyroid Disease Classification System [GitHub](#) | [Springer Paper](#)

December 2024 - June 2025

- Developed an XGBoost classification model achieving 97.6% accuracy across 7,200 patients for 3 thyroid conditions; applied SMOTE oversampling to address 3:1 class imbalance, improving minority class recall from 68% to 93%.
- Engineered an explainable AI system using SHAP, identifying TSH, T3, and T4 hormone levels as primary diagnostic indicators and quantifying each feature's contribution (65% combined importance) to model predictions.
- Reduced diagnostic feature set from 19 to 12 through feature importance analysis and Exploratory Data Analysis while maintaining F1-scores (0.95+) across all conditions via cross-validated hyperparameter tuning with GridSearchCV.

### Automated Job Classification Platform [GitHub](#)

January 2026 - March 2026

- Built a Python pipeline that automatically collects 8,000+ job postings weekly from 6+ sources including GitHub, Gmail, and job boards; reduced duplicate job entries by 95% using URL normalization and ID matching.
- Developed a self-healing email system using Microsoft Graph API that creates and schedules outreach drafts automatically, with built-in token refresh and error retry eliminating manual sending steps across 30+ emails per run.
- Built a self-learning email finder across 247+ companies using DNS detection, improving delivery by 40% over time.