

# KARTHIK KUNNAMKUMARATH

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## PROFESSIONAL SUMMARY

Aspiring Data Scientist / Machine Learning Engineer with a strong foundation in Python, Pandas/NumPy, Scikit-learn, and data visualization (Matplotlib, Seaborn). Brings 5+ years of leadership in IT and engineering projects. Seeking a co-op or entry-level role to apply analytical, modeling, and project-management expertise within an AI/data-driven environment.

## TECHNICAL SKILLS

Languages & Frameworks: Python (Pandas, NumPy, Scikit-learn), SQL, JavaScript, ReactJS, NodeJS, MongoDB

Tools & Environments: Jupyter Notebook, Git/GitHub, Jira, Trello, MS Project

Data Science Techniques: Regression, Classification, Clustering, Feature Engineering, Cross-Validation

Visualization: Matplotlib, Seaborn, Power BI, Draw.io, Tableau

Collaboration & Platforms: Slack, Microsoft Teams, SharePoint

Other: Agile/Scrum Frameworks, CMMS (Maximo), Process Optimization

## EDUCATION & CERTIFICATIONS

Postgraduate Certificate in Applied AI Solutions Development – George Brown College, Toronto | 2025 – 2026 (in progress)

Relevant Coursework: Machine Learning I & II, Deep Learning I & II, Big Data Tools & Techniques I & II, Data Visualization, Foundations of Data Management, Agile Project Management, Presenting Data Science-driven Solutions

Postgraduate Certificate in Process Quality Engineering – Conestoga College, Kitchener, ON | 2020

Postgraduate Certificate in Project Management – Conestoga College, Kitchener, ON | 2019  
B.Tech in Aerospace Engineering – Amrita Vishwa Vidyapeetham, India | 2017

Certifications:

- Project Management Professional (PMP) – PMI (Reg. No.: 3563837), valid through 2026
- Certified ScrumMaster (CSM) – Scrum Alliance (Reg. No.: 1961753), valid through 2026

## AI & DATA SCIENCE PROJECTS (COMPLETED)

- Stellar Classification (SDSS Dataset) – Built ML models (Logistic Regression, Random Forest, SVM, SGD) to classify celestial objects (Stars, Galaxies, Quasars). Achieved 97.6% accuracy using tuned Random Forest; performed data cleaning, and feature selection.
- Real Estate Price Prediction – Created regression models (Linear, Decision Tree, Random

Forest) to forecast housing prices based on location, size, and market trends.

- Health Risk Prediction using ML – Built predictive models estimating potential health risks from demographic and medical datasets using logistic regression and ensemble methods.
- Feature Selection & Model Optimization – Benchmarked RFE, Chi-Square, and PCA techniques to enhance model accuracy and interpretability.

## AI & DATA SCIENCE PROJECTS (PLANNED – ACADEMIC COURSEWORK)

- Develop supervised ML models in Python to predict equipment failures using Pandas/NumPy and Scikit-learn; target > 90% accuracy in validation.
- Conduct data cleaning, feature engineering, and visualization (Matplotlib, Seaborn) on Toronto energy consumption dataset to identify key insights for efficiency.
- Build a full-stack data science system using PySpark & Hadoop for large-scale data ingestion and visualization (Big Data Tools & Techniques coursework).
- Implement CNN architectures for image classification (CIFAR-10 dataset) targeting > 92% accuracy using TensorFlow (Deep Learning II course).

## PROFESSIONAL EXPERIENCE

Maintenance Project Supervisor | Estée Lauder Companies – Markham, ON | Jun 2022 – Present

- Led cross-functional IT & engineering teams using Agile (Scrum ceremonies and sprint metrics), improving velocity by 25%.
- Automated Jira & CMMS (Maximo) workflows, reducing work-order resolution time by 30%.
- Managed IT integrations (sensor calibration, networked printers), reducing downtime by 40%.
- Collaborated with stakeholders to align project deliverables with KPIs & quality objectives.

Project Manager – IT & Construction | Sangeeth Builders – Kerala, India | Jan 2017 – Jan 2019

- Delivered concurrent IT infrastructure & construction projects (total budget ≈ US \$500K) with 100% on-time completion.
- Implemented SharePoint-based digital inventory tracking system, reducing reporting delay by 50%.
- Trained 20+ team members on Jira & MS Project, reducing onboarding time by 40%.
- Employed hybrid Agile/Waterfall methodology (Scrum for software, Waterfall for construction).

## ADDITIONAL INFORMATION

- Interests: AI & Machine Learning, Predictive Analytics, Data Visualization, Fitness & Wellness, Animes
- Authorized to work in Canada (Permanent Resident)