

# KARTHIK KUNNAMKUMARATH

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Portfolio: <https://95karthik4.github.io>

## PROFESSIONAL SUMMARY

AI Solutions Developer and Data Scientist with a strong foundation in Machine Learning, Deep Learning, and end-to-end AI system development. Aerospace Engineer turned Data professional with 5+ years of technical leadership experience. Skilled in Python, Computer Vision, NLP, and ML model deployment. Seeking Co-op / Entry-Level AI roles to apply hands-on expertise in real-world, data-driven environments.

## TECHNICAL SKILLS

- AI & Machine Learning: Regression, Classification, Clustering, Random Forest, SVM, Ensemble Learning, CNNs, LSTMs
- Deep Learning & Libraries: TensorFlow, Keras, PyTorch, OpenCV, Scikit-learn, NumPy, Pandas
- Computer Vision & NLP: Real-time detection, CRF, LDA, Text Parsing, Image Classification
- Tools: Jupyter, Git/GitHub, Tableau, Power BI, Maximo (CMMS), LLM models
- Data Engineering Basics: ETL, Data Cleaning, SQL, Big Data Concepts
- Other: Agile/Scrum, Project Management, Jira, Trello

## FEATURED AI PROJECTS

- Computer Vision – Thief Detector: Real-time surveillance system using OpenCV with auto-recording and intruder detection using Background subtraction techniques
- Stellar Classification (97.6% Accuracy): Random Forest model classifying 100k+ celestial objects from the SDSS dataset.
- AutoFeatureSelector: Automated tool running Pearson Correlation, Chi-Square, Recursive Feature Elimination (RFE), Lasso (L1) Regularization, Random Forest, LightGBM selection algorithms for robust predictor identification.
- Healthcare NLP – Prescription Parser: CRF-based model converting unstructured prescription text into structured data.
- Movie Recommender: Hybrid recommendation engine (SVD + content-based).
- News Topic Modeling: LDA-based system clustering news articles into abstract topics.

## EDUCATION

Postgraduate Certificate – Applied AI Solutions Development (2025–2026) – George Brown College

Postgraduate Certificate – Process Quality Engineering (2020) – Conestoga College

Postgraduate Certificate – Project Management (2019) – Conestoga College

B.Tech – Aerospace Engineering (2017) – Amrita Vishwa Vidyapeetham

## CERTIFICATIONS

- PMP – Project Management Institute (3563837 Valid through 2026)
- Certified ScrumMaster – Scrum Alliance (1961753 Valid through 2026)

## PROFESSIONAL EXPERIENCE

Maintenance Project Supervisor –Markham– Estée Lauder Companies (2022–Present)

- Improved team velocity by 25% using Agile.
- Automated Jira and Maximo workflows, cutting resolution time by 30%.
- Managed engineering integrations reducing downtime by 40%.
- Built Python-based KPI scripts for operations optimization.

Project Manager – IT & Construction –Kerala, India – Sangeeth Builders (2017–2019)

- Delivered \$500K+ projects with 100% on-time completion.
- Built digital inventory system reducing delays by 50%.
- Trained 20+ staff on digital tools.
- Applied Agile for IT and Waterfall for construction.

## ADDITIONAL INFORMATION

Interests: AI, CV, NLP, ChatGPT, Google antigravity, Fitness, Anime