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Top Skills

Industry 5.0
Cyber-Physical Systems
Data Transformation

Languages

Hindi (Limited Working)
English (Full Professional)
Telugu (Native or Bilingual)

Certifications

Knowledge Transfer Partnership Associates Conference 2024
Business Analysis: Essential Tools and Techniques
ChatGPT Prompt Engineering for Developers
Business Agility Professional Level 1
Neural Networks and Deep Learning

Rama Krishna Aditya Bharadwaj Kolluri

Doctoral Researcher — AI-Driven Maintenance Optimization for Minigrids | Birmingham City University | AI · IoT · Digital Twins · Renewable Energy
Birmingham, England, United Kingdom

Summary

I am a results-driven Business Intelligence Manager at ECAM Engineering Limited, leading transformative digitalisation initiatives at ECAM Precision Engineering Ltd. With a clear focus on optimising operational efficiency, I am passionate about shaping the future of engineering and technology through collaborative innovation. Let's connect and explore how we can create impactful solutions together!

Experience

ECAM Engineering Limited
2 years 9 months

Business Intelligence Manager
August 2025 - Present (8 months)
Cheadle, England, United Kingdom

Driving ECAM's data optimization from shop floor operations to strategic planning to enable smarter, faster business decisions. Focused on improving operational efficiency, uncovering growth opportunities, and fostering innovation for long-term competitiveness.

Key Responsibilities:

Data Management & KPI Reporting:
Collect and maintain accurate production data. Track capacity and OEE, updating KPIs to highlight areas for operational improvement.

Data Analysis & Visualization:
Analyze trends, risks, and opportunities. Create clear dashboards and reports to inform decision-making across the business.

System & Software Development:

Enhance internal systems for better data capture and reporting. Identify and implement new tools to streamline workflows, and support teams during transitions.

Market Research & Strategic Insight:
Monitor industry trends and competitor activity to spot strategic growth opportunities. Advise leadership on market gaps and innovation potential.

Data Infrastructure Oversight:
Ensure data systems are secure, effective, and drive business performance. Address gaps and recommend improvements.

AI Integration:
Research and develop AI strategies to boost efficiency and reduce costs.

Business Systems and Technology Analyst
July 2023 - July 2025 (2 years 1 month)
Cheadle, Staffordshire, England, United Kingdom

* Spearheading a digitalisation project to enhance visibility and traceability across the manufacturing
production process, streamlining operations and improving efficiency.

* Developing and implementing digital marketing strategies to drive business growth and expand the
company's online presence.

* Embedding academic knowledge and innovative practices from Birmingham City University into ECAM
Engineering's operations to foster technological and strategic advancements.

* Collaborating with stakeholders to align digital transformation initiatives with organizational goals,
ensuring measurable business impact.

* This role has enhanced my expertise in digital transformation, strategic marketing, and knowledge
integration for business innovation.

Birmingham City University
Knowledge Transfer Partnership Associate
July 2023 - July 2025 (2 years 1 month)

* Facilitated knowledge transfer between Birmingham City University and ECAM Engineering Ltd to drive
innovation and support the company's growth initiatives.

* Implemented strategies to integrate academic insights into ECAM's operations, enhancing business
processes and improving operational efficiency.

* Transferred real-time manufacturing challenges and industry best practices from ECAM to the university,
contributing to the academic knowledge base and enriching research outcomes.

* Played a pivotal role in bridging academia and industry, fostering collaboration for mutual growth and
innovation.

* This role has honed my ability to navigate and align academic and industry perspectives while driving
impactful results in organizational development and knowledge sharing.

University of Central Lancashire
Graduate Project Engineer | DigitME2
February 2022 - June 2023 (1 year 5 months)
Burnley, England, United Kingdom

DigitME2 is a subsdiary company of University of Central Lancashire

* Designed and developed new features for the DigitME2 web application using PHP and MySQL,
enhancing functionality and user experience.

* Contributed to developing the DigitME2 Android application using Java, implementing new
features and improving performance.

* Automated testing processes with Python unit tests and Selenium, ensuring code robustness and
reliability.

* Performed data analysis and contributed to building machine learning models for time series
prediction using simulated datasets, providing actionable insights for project objectives.

* This role strengthened my programming expertise, testing automation skills, and data analysis
capabilities while fostering web and mobile application development innovation.

Baxi Heating
Assembly Operator
November 2021 - February 2022 (4 months)
Preston, England, United Kingdom

* Performed final assembly tasks for boilers, ensuring all components were accurately installed and aligned
to quality standards.

* Conducted pressure-holding tests on fully assembled boilers to verify functionality and adherence to
safety regulations.

* Collaborated with the production team to identify and resolve assembly line issues, maintaining
operational efficiency.

* Followed stringent quality control protocols to ensure high standards in the manufacturing process.

* This role enhanced my hands-on technical skills, attention to detail, and ability to work effectively in a
team-oriented manufacturing environment.

Arab Academy for Science, Technology and Maritime Transport
Research Intern – Autonomous Vehicles (ERASMUS Placement)
June 2021 - September 2021 (4 months)
Alexandria, Egypt

Erasmus+ Traineeship | Grade: Distinction | European Commission Funded Project

* Developed and implemented a Script for autonomous vehicle applications using MATLAB and Python.

* Conducted research on object detection using low-cost sensors, including ultrasonic, infrared, and
low-cost camera modules.

* Designed and integrated microcontrollers such as Arduino UNO and Raspberry Pi 2 for autonomous
vehicle movement and sensor-based operations.

* Utilized sensors like MPU 6050 Module and 6 DOF 3 Axis Accelerometer/3 Axis Analog Gyro Sensors
for lane following and vehicle stability.

* Achieved objectives such as detecting surface potholes using infrared sensor, ensuring vehicle safety
by stopping and changing lanes based on object detection.

* Applied project management techniques and adhere to ethical considerations in AI-focused research.

* This project enhanced my technical expertise in autonomous systems, programming, and sensor
integration, while strengthening my project management and problem-solving skills in research-
driven environment.

Amazon Logistics Group
Sortation Associate
September 2020 - January 2021 (5 months)
Preston, England, United Kingdom

* Assisted in efficiently sorting and organising parcels arriving from various Amazon fulfilment
centres.

* Managed the collection of parcels from conveyor belts, sorting them based on designated delivery
routes, and placing them for streamlined dispatch.

* Contributed to the timely and accurate processing of orders in a fast-paced logistics environment.

* This role enhanced my organizational skills, attention to detail, and ability to work effectively in high-
pressure logistics operations.

Royal Sanders (UK) Limited
Production & Warehouse Operator
May 2020 - September 2020 (5 months)
Preston, England, United Kingdom

(During Master's Course)

* Supported production line operations for various personal care products, including shower gel,
shampoo, conditioner, and mouthwash.

* Worked across different production lines, handling tasks such as bottle loading, cap tightening,
labelling, and pallet loading in a high-paced environment.

* Assisted in warehouse responsibilities to ensure seamless supply chain support for production lines.

* Maintained strict adherence to quality and efficiency standards while collaborating with team members
to meet daily production targets.

* This role enhanced my ability to work under pressure, manage time effectively, and contribute to fast-
moving operational processes.

Amazon Development Center India
Customer Service Associate
August 2018 - August 2019 (1 year 1 month)
Hyderabad Area, India

* Provided exceptional customer support for amazon.co.uk via chat and email, addressing a wide range
of inquiries, including orders, account settings, Prime membership management, deliveries, refunds,

replacements, and order cancellations.

* Supported amazon.com during peak sales periods (October to January), efficiently handling high
volumes of customer queries and ensuring timely resolutions.

* Assisted customers in managing account access across multiple devices, ensuring seamless user
experiences.

* Demonstrated strong communication and problem-solving skills in a fast-paced, customer-centric
environment.

* This role sharpened my ability to deliver excellent customer service, multitask effectively, and adapt to
the dynamic needs of global clients.

Education

Birmingham City University
Doctor of Philosophy - PhD, AI Driven Maintenance Optimization for Solar Minigrids · (February 2026 - February 2029)

University of Central Lancashire
Master's degree , Mechatronics, Robotics, and Automation Engineering · (January 2020 - October 2021)

Vishnu Institute of Technology, Vishnupur, Bhimavaram, PIN-534202(CC-PA)
Bachelor of Technology - BTech, Mechanical Engineering · (2013 - 2017)