# Prathyush N M

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## EDUCATION

**M.E.S College of Engineering (MESCE),**                                      Jun 2020 – May 2024
*Bachelor of Technology, Artificial Intelligence & Data Science*
- **Relevant Coursework:** Data Structures and Algorithms (DSA), Python for Machine Learning, Design and Analysis of Algorithms, Big Data Analytics, Deep Learning for Signal & Image Processing, Full Stack Web Development

## EXPERIENCE

**Co-Founder,** *Datum Solutions*                                      Oct 2024 – Present
- Co-founded a data-first AI initiative, leading **3+ projects** in applied ML research and prototyping, and establishing workflows to transform raw datasets into intelligent solutions
- Directed dataset preparation, annotation, and model experimentation across **10k+ data points**, improving accuracy by **20%** in proof-of-concept models
- Managed **project planning, task delegation, and client-facing presentations**, coordinating a **5-member team** to deliver NLP and predictive analytics prototypes into actionable outcomes

**Associate Software Engineer Trainee,** *Inker Robotics*                                      Aug 2024 – Oct 2024
- Led the development of the **AI zone** of **RoboPark,** a robotics project aimed at enhancing interactive and educational experiences for all ages, focusing on optimising autonomous system operations
- Worked closely with cross-functional teams to automate testing pipelines to ensure quality assurance and reduce deployment times by **40%**
- Oversaw prototype testing and troubleshooting, improving user interaction and achieving a total of **25% performance boost** in operations

## LEADERSHIP & VOLUNTEERING

**GOLD - Microsoft Learn Student Ambassador,**                                      Apr 2023 – Sep 2024
*Microsoft MVP Communities*
- The only current **Gold** MLSA of **Kerala** the highest tier inside the programme, organised multiple events on Microsoft technologies, including **AI hackathons** and **study groups**, facilitating **collaboration** among tech enthusiasts and fostering innovation

**Branch Chairperson,**                                      Jun 2023 – May 2024
*IEEE Robotics and Automation Society (RAS) Malappuram*
- Directed IEEE RAS chapter initiatives, conducting **workshops** on **robotics and automation**, and enhancing technical knowledge among members

## PROJECT WORKS

**NLP-based Automated Answer Sheet Evaluation System**                                      May 2023 – Feb 2024
- Developed a cutting-edge system utilizing Natural Language Processing (NLP) techniques like **BERT** and **Word2Vec** to automate answer sheet grading for subjective exam questions
- Increased grading accuracy by **60%**, surpassing manual grading benchmarks, and decreased human workload by **85%** using NLP for vocabulary analysis, sentence structure, and sentiment evaluation
- Implemented features like **cosine similarity** and **sentiment analysis** to assess the quality and relevance of responses, improving the system's reliability
- Spearheaded the integration of automated **grammar checking** within the system, boosting the depth and credibility of evaluations

**AI-driven Predictive Analytics for Customer Behaviour**                                      Jan 2023 – Jun 2023
- Developed an **AI-powered predictive analytics** platform that used historical customer data to forecast behaviour, helping companies optimise marketing strategies
- Implemented machine learning algorithms like **random forests** and **gradient boosting** to predict customer lifetime value and improve decision-making
- Achieved a **20%** increase in customer retention rates by applying data-driven insights to marketing campaigns, improving personalization and targeting efforts
- Utilised tools like Tableau for **data visualization**, allowing business teams to track customer trends and make informed decisions

## SKILLS

**Technical Skills: Programming Languages**: Python, C++, PHP, React (Beginner) | **Machine Learning**: Scikit-learn, TensorFlow, Keras, Pandas, NLTK, spaCy, OpenCV | **Data Analytics**: PySpark, Hadoop | **Web Development**: Django | **Databases**: SQL, MongoDB

**Soft Skills:** Product Development | Agile | Market & Competitive Analysis | Stakeholder Management | Strategic Planning | Leadership | Adaptability | Effective Communication | Data Driven Problem-Solving | Team Collaboration | Time Management

## CERTIFICATES

| **Foundations of Project Management** | **Project Management Job Simulation** | **Product Management Job Simulation** | **AI-102: Azure AI Engineer Associate** |
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| Google Certified (ID: EOMVUKYQWDWO) | Accenture Certified (ID: 5rXrQoc5C8jsdf8ML) | Electronic Arts Certified (ID: 47wcNW9rtEiP8zHmg) | Microsoft Certified (ID: 34D2275E62F435AF) |