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

Associate Software Engineer [Apprenticeship], *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

Future Ready Talent [Internship], *Microsoft* Jan 2023 – Mar 2023

- Implemented **Azure cloud solutions** to enhance deployment efficiency for internal tools, reducing server costs by **20%**
- Developed **Machine Learning** pipelines integrating Azure AI and **Deep Learning** frameworks to automate data analysis tasks and optimize workflows
- Acquired practical experience in **DevOps**, virtual machines, and networking, building a solid foundation in **cloud engineering**

PROJECTS

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 Behavior 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

Deep Learning-based Image Recognition System Mar 2022 – Jul 2022

- Designed an **image recognition** tool capable of classifying images with an accuracy rate of **95%**, leveraging convolutional neural networks (CNN) for feature extraction and classification
- Deployed the tool on **Google Cloud Platform (GCP)**, optimising scalability and storage efficiency for large datasets, and reducing data processing times by **40%**
- Integrated **transfer learning techniques**, utilising pre-trained models to reduce training times while improving accuracy and precision in object recognition
- Enhanced the model with **real-time object detection** capabilities, significantly improving system responsiveness and usability.

VOLUNTEERING

GOLD - Microsoft Learn Student Ambassador, Apr 2023 – Sep 2024
Microsoft MVP Communities

- One of the only two current **Gold** MLSA of **Kerala** - 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

SKILLS

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

Soft Skills: | Leadership | Adaptability | Problem-Solving | Effective Communication | Team Collaboration | Time Management |