Prathyush N M

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EDUCATION

M.E.S College of Engineering (CGPA: 8.78), 2020 – 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 [Internship], *Inker Robotics* Aug 2024 – present
- Contributed to the development of the **Artificial Intelligence** zone of **RoboPark**, a robotics project aimed at enhancing interactive and educational experiences for all ages, focusing on optimising autonomous system operations
- Automated testing pipelines to ensure quality assurance and **reduce deployment** times by **40%**, using **Python** and **Jenkins**
- Led **prototype testing** and **troubleshooting**, improving user interaction and achieving a total of **25%** performance boost in operations
- Worked closely with **cross-functional teams** to design and deploy scalable robotic architectures for industrial applications

Social Media Manager [Internship], *GTech MuLearn* Jul 2022 – Dec 2023
- Spearheaded a strategic social media campaign on LinkedIn, **increasing followers by 166%** through engagement and content optimisation
- Introduced innovative analytics methods to assess audience engagement, resulting in a **30% increase** in post-interaction rates
- Partnered with various teams to align marketing strategies, improving overall brand visibility by leveraging **trend analysis** and **user behaviour insights**
- Developed a content calendar that increased **brand awareness** and **engagement**, aligning with organizational goals

Future Ready Talent [Virtual 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
- **Automated deployments** for scalable infrastructure, reducing manual configuration times and operational errors
- Acquired practical experience in **DevOps**, **virtual machines**, and **networking**, building a solid foundation in **cloud engineering**

PROJECTS

NLP-based Automated Answer Sheet Evaluation System using BERT 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 **50%** 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** and **plagiarism detection** 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 for end users

VOLUNTEERING

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

Branch Chairperson, *IEEE Robotics and Automation Society (RAS) Malappuram* Jun 2023 – May 2024
- 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) | **Data Analytics**: PySpark, Hadoop | **Databases**: SQL, MongoDB | **Web Development**: Django | **Version Control**: Git | **Machine Learning**: TensorFlow, OpenCV |

Soft Skills: | Leadership | Team Collaboration | People Management | Time Management | Excellent Communication | Creativity |