Sadakopa Ramakrishnan

nstsrka04@gmail.com | +91 9840013841 | Github | LinkedIn

Myracle.io
India
Remote

September 6, 2024

Dear Hiring Manager,

I am excited to apply for the AI Engineer Intern position at Myracle.io. Myracle.io's focus on delivering delightful user experiences using AI, large language models (LLMs), and mobile technology under the mentorship of world-class software leaders is truly inspiring. The opportunity to work at an innovative company that simplifies workflows and enhances productivity resonates with my passion for building solutions that make a meaningful impact.

As a B.Tech student in Information Technology at SSN College of Engineering, along with my Diploma in Programming and Data Science from IIT Madras, I have built a strong foundation in software development and basic AI-driven technologies. My hands-on experience includes building and optimizing models that tackle real-world problems. During my role as a Research Assistant at Bright Academy, I developed a dual-stage predictive model for flight delay forecasting, showcasing my ability to work with large datasets and create efficient, scalable solutions. This project demonstrated my bias for action and my determination to achieve impactful results.

I am particularly excited about Myracle.io's emphasis on research, development, and continuous refinement. The chance to work in an environment that encourages iteration based on user feedback and collaboration aligns perfectly with my strengths in problem-solving and teamwork. I am drawn to the culture at Myracle where aiming for the moon and taking risks is not only encouraged but celebrated. I firmly believe that my technical skills, along with my ability to quickly learn and adapt to new challenges, would allow me to contribute effectively to your engineering teams.

Thank you for considering my application. I am enthusiastic about the opportunity to join Myracle.io and contribute to your mission of building cutting-edge software that empowers teams around the world. I look forward to the possibility of discussing how I can contribute to Myracle.io's innovative projects.

Sincerely,

Sadakopa Ramakrishnan

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Email: nstsrka04@gmail.com
Mobile: +91-9840013841
LinkedIn: Sadakopa Ramakrishnan

Education

- **Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam** — Chennai, India
  Bachelor of Technology - Information Technology; GPA: ***8.853*** — *Oct 2022 - Present*
  Ranked 8th among 160+ students in the department
- **Indian Institute Of Technology, Madras** — Chennai, India
  Diploma in Programming and Data Science; GPA: ***8.58*** — *Jan 2023 - Present*

Skills Summary

- **Languages:** : Python, Java, SQL
- **Databases:** : Firebase, MySQL, Oracle SQL* Plus
- **ML Frameworks**: Scikit, PyTorch, Pandas, Numpy, Matplotlib, Seaborn

Experience

- **Bright Academy** — On-Site
  Undergraduate Research Assistant — *April 2024 - Present*
  - **Machine Learning Research and Application**: Developed and trained datasets using a variety of **machine learning models**, encompassing both regression and classification algorithms. Performed comprehensive analyses to assess model performance through diverse **evaluation metrics**.
  - **Project Documentation and Reporting**: Composed in-depth project reports that meticulously described methodologies, **data preprocessing** procedures, model selection processes, and evaluation outcomes. Emphasized clarity and detail to ensure the research was easily understandable and reproducible..
  - **Peer Review and Mentorship**: Reviewed and offered constructive feedback on assignments and project reports submitted by peers. Helped clarify complex concepts and guided classmates toward better analytical methods.
- **IEEE Computer Society** — On-Site
  Event Manager — *March 2024 - Present*
  - **Event Management** : Successfully planned, organized, and executed various events, including workshops, seminars, and coding competitions. Coordinated with speakers, managed logistics, and oversaw event promotion to ensure high attendance and engagement.
  - **Coordination Experience**: Collaborated with team members to develop event schedules, prepare materials, and ensure smooth operations. Demonstrated strong organizational and leadership skills, contributing to the club's vibrant community and professional development opportunities for members.

Projects

- **A Two-stage Flight Delay Predictor (Machine Learning)**: *May 2024*
  - Developed a dual-stage machine learning model to forecast flight delays at 15 major U.S. airports using 2016-2017 flight and weather data.
  - Implemented a binary classifier for delay detection and a regression model for delay duration estimation.
  - Achieved 92% accuracy in classification and 94% accuracy in regression.

  Tech Stack: Python, scikit, numpy, pandas, matplotlib, seaborn
- **SSN Students Grade Analysis - IT Department**: *June 2024*
  - **Developed a Web Application:** Reduced teachers' workload by **70%** with features such as **Excel integration** for up to **300 students**, **automated grading**, and **secure authentication**.
  - **Enhanced Data Analysis and Visualization:** Provided **4 interactive Chart.js views** and comprehensive performance insights, enabling efficient management of over **300 students** and detailed batch and section reviews.

  Streamlined grading, minimized manual errors, and boosted analytical capabilities.
- **Daily Object Classification Using Deep Learning on CIFAR-10**: *July 2024*
  - **Developed and Trained a Deep Learning Model:** Constructed a CNN with **5 convolutional layers** and **3 fully connected layers** to classify **60,000 images** into **10 categories**. Achieved a classification accuracy of **85%** on the test set, improving upon baseline models by **15%**.
  - **Optimized and Evaluated Model Performance:** Utilized optimization algorithms such as Adam and learning rate scheduling. Generated confusion matrices and precision-recall curves to analyze performance, reducing overfitting by 20% through regularization and hyperparameter tuning.

Achievements

Adobe Gensolve Hackathon 2024 - Placed among the top 5% of participants *July 2024*

- Developed a tool to transform hand-drawn line art into smooth cubic Bezier curves by implementing curve regularization, symmetry detection, and completion algorithms.

SIH'23 - Internal Hackathon Winner *Sep 2023*

- Selected among the 40 teams to present our idea under the problem statement - SIH1326 in the Smart India Hackathon 2023 portal