S. HARISH KRISHNAN | *SOFTWARE DEVELOPMENT ENGINEER INTERN*

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EDUCATION

Master of Data Science 09/2023 - 08/2025
University of Adelaide, Australia
- Key Courses: Using Machine Learning & Tools | Introduction to Statistical Machine Learning | Mathematics

Bachelor of Computer Engineering 08/2019 - 05/2023
University of Mumbai, Mumbai, India (GPA: **3.52/4**)
- Key Courses: Data Structures & Algorithms | Object-Oriented Programming (OOP) | Software Engineering Best Practices | Database Management System (DBMS) | Software Development Principles

PROFESSIONAL EXPERIENCE

Research Intern, Brain Tumor Detection using Deep Learning**,** University of Adelaide, Australia 09/2024 - Present
- Engineer a machine learning model using TensorFlow, PyTorch, YOLO, and OpenCV, aiming to improve diagnostic accuracy by approximately 15-20% and reduce training time by 20-25%, enabling faster and more precise medical diagnoses.
- Collaborate in an agile environment to design and develop scalable solutions, adapt to evolving challenges, and apply best practices to ensure high-quality software performance.

Console Operator, ON THE RUN, Adelaide, Australia 12/2023 - Present
- Resolve 250+ weekly issues, improving customer satisfaction by 15% and reducing resolution time by 20%, skills directly applicable to debugging and optimisation.
- Coordinated a team of 12+, improving workflows and introducing diversity strategies, directly reflecting agile collaboration skills applicable to software development.

PROJECTS

Breast Cancer Prediction | ***Python, SVM, Machine Learning*** | Project Link 07/2024-08/2024
- Designed and implemented a predictive model with 90%+ accuracy for a pathology lab, surpassing the client's target by enhancing algorithms and refining data processing techniques.
- Achieved a 92.31% recall rate through hyper-parameter tuning and feature optimization, addressing real-world challenges in healthcare diagnostics.

Prediction of Seoul Bike Rental Demand | ***Python, Data Visualisation, SVR*** | Project Link 06/2024 - 07/2024
- Led the development of a predictive model analysing 1.5 million data points, improving accuracy by 22.77% and effectively addressing complex challenges in a large-scale environment.
- Improved accuracy by 22.77%, as measured by model performance, by optimising regression models for bike rental demand.

Advanced Predictive Analytics for Job Change Intentions | ***Python, Machine Learning*** | Project Link 09/2022-10/2022
- Orchestrated predictive modelling integration into recruiting tools, empowering 15 hiring managers to make data-driven decisions and optimise talent acquisition.
- Enhanced model precision by 0.18% on a dataset of 19,158 records by applying SMOTE to address the class imbalance and implementing data imputation techniques.

Apple New Stock Prediction | Python | Project Link 07/2022 - 09/2022
- Optimised machine learning models (Linear, Ridge, Lasso, ElasticNet) to achieve an R2 of 0.98, enhancing forecast accuracy and contributing to strategic financial decisions.

SPECIALISED SKILLS

- **Programming Languages**: C, C++, Java, Python, SQL, R
- **Technologies:** Git, Docker, CI/CD Pipelines, AWS, Linux Environment
- **Core Competencies**: Object-Oriented Design, Algorithms, Data Structures, Agile Methodology, Software Architecture, Software Development Lifecycle (SDLC)

PUBLICATIONS

Review of Developmental Strides Towards the Edutainment Domain | IRJET | Link 08/2022 - 12/2022
- Published research influencing educational strategies across 15+ countries, solving complex problems with data-driven, scalable solutions.