

# Dhanraj Krishnamurthy

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## EDUCATION

### Master of Science in Data Science, Analytics and Engineering

Arizona State University, United States

August 2024 - May 2026

### Bachelor of Engineering in Computer Science and Engineering

BMS College of Engineering, India

August 2018 - July 2022

CGPA: 8.89/10.0

## TECHNICAL SKILL

**Programming/Scripting Languages:** Python, R, C++, C#, Java, JavaScript, SQL, Bash, C

**Tools:** MySQL, Docker, Linux, MongoDB, Hadoop, Tableau, NoSQL, Git, PostgreSQL, AWS (EC2, S3), Google Cloud

**Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Flask, React

**Data Science Skills:** Data Cleaning, Feature Engineering, Model Training, Deep Learning, Neural Networks, Machine Learning

**Soft Skills:** Collaboration, Communication, Multi-Tasking, Leadership, Project Development Management, Strategic Planning

**Coursework:** Statistical Machine Learning, Data Processing at Scale, Statistics for Data Analysts

**Certifications:** Amazon Web Services Fundamentals: Going Cloud-Native, Coursera.

## PROFESSIONAL EXPERIENCE

### Software Development Engineer | Philips

August 2022 - August 2024

- Engineered and deployed the Body Marker Enhanced feature utilizing multithreaded **C++ APIs** for image processing.
- Re-architected the Body Marker database schema to support **14 localized languages**, implementing stored procedures and triggers, reducing query response times by 20% and increasing scalability for over 1,000 clinicians.
- Developed various software features aimed at revamping user interaction and reducing patient diagnosis time by **67%**.
- Addressed over a **hundred mission-critical bugs**, garnering appreciation for achieved performance.
- Identified and resolved 100+ mission-critical software bugs, revising product stability and receiving the **Philips Innovation Campus - Culture Award** for critical escalation management.
- Collaborated with 5 hospitals across India, troubleshooting software issues and gathering key feedback to improve usability.

### Software Development Intern | Philips

February 2022 - July 2022

- Gained experience in Agile, Jira, and Azure DevOps - Engineered a prototype application for body marker annotation management, boosting database efficiency by 25% through optimized SQL queries.
- Optimized C++, .NET, and **MVVM** to upgrade UI performance and data retrieval for 10,000+ ultrasound images.

### Full Stack Developer | Exposys Data Labs

March 2021 - April 2021

- Developed a Python script with Scapy and Colorama to detect and prevent DDoS attacks, evaluated using Mininet and Pox tools.

## PROJECTS

### Eye-Move: An Efficient Eye-Typing Application | Deep Learning, TensorFlow, PyTorch, NLP

- Developed a pioneering solution enabling individuals with severe disorders to communicate and manage environments through home automation. Engineered a CNN to capture and map users' eye gaze to an on-screen keyboard, facilitating effective communication. Implemented text completion using n-grams to enhance typing speed.

### Customer Churn Detection | Scikit-learn, Pandas

- Created a customer churn prediction app with an ANN model, utilizing Scikit-learn for model training, and NumPy/Pandas for data preprocessing and feature engineering, enabling real-time predictions based on customer demographics and usage patterns.

### Farmers Market - E-commerce Store | Flutter, Firebase

- Designed a Flutter application to help farmers sell yields at nearby farmer markets. Comprises user authorization, add to cart, and search functionalities. Backend built using Firebase Storage and Authentication.

### Driver Drowsiness Detection

- Devised a system to detect sleepy drivers and alert by triggering an alarm to encourage caution and prevent accidents. The Convolutional Neural Network (CNN) model trained to achieve a **94% accuracy** rate.

## AWARDS & PUBLICATIONS

**Best Project Award:** The Computer Science Department at the KSCST 45th SPPS Exhibition, VTU

**Publication:** Eye-Move: An Eye Gaze Typing Application with OpenCV and Dlib Library, IEEE 2022 (ICACRS)