

# BALAVIGNESH K

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## Career objective

Seeking an entry-level opportunity in a dynamic IT environment to apply technical skills, contribute to innovative projects, and grow professionally in Cloud, Data, or Machine Learning domains. Equipped with practical experience in Machine Learning, Data Analysis, and AWS Cloud services through academic and real-time projects.

## Internship Experience

Data Analyst at Retech solutions limited.

- Unraveling Trends in Retail Sales using power BI and machine learning.
- Deployed an SVR sales prediction system using time series data and reduced forecast error by 15%

AWS Engineer at Nexilla technologies

- Completed a 1-month hands-on internship working with EC2 (Windows/Linux), Apache & IIS hosting, ALB/CLB, VPC (public/private, peering), IAM, S3, and Elastic IP.
- Hosted a live personal portfolio website on AWS EC2 using Linux Apache with file transfer via WinSCP and public internet access.

## Project

Multiclass Brain Tumor Classification using ML & Deep Learning

- Developed a multiclass brain tumor detection system using Random Forest, CNN, and VGG16 on a dataset of 3,180 MRI images.
- Implemented image preprocessing, normalization, and model comparison to evaluate classification performance.
- Built a Flask-based web application to display real-time prediction results for uploaded MRI images.

## Certifications

- Certificate - Cloud Architecting - AWS Academy Graduate, 2025
- Certificate - Cloud Operations - AWS Academy Graduate, 2025
- Certificate – Machine learning Projects – Great learning, 2024
- Certificate - Data Analyst - Pantech Elearning, 2023

## Positions of Responsibility

Served as Head of the VELIGHT Committee (Department of IT) at Vecoders Club, demonstrating strong leadership and coordination skills. Acted as Student Coordinator for NCRTCI'25(conference), managing magazine and souvenir releases alongside national-level technical events. Effectively collaborated with cross-functional teams to ensure smooth execution and an engaging conference experience for participants.

## Co-curricular activities and extra-curricular activities

- Expanded knowledge of explainable AI principles through active participation in the SSN College pre-conference workshop in 2024, directly enhancing machine learning interpretability skills by 15%.
- Expanded practical expertise in data science and Python-based analytics through active participation in Brain Vision's International Level Student Workshop (2024).
- YRC Member: Gained meaningful community service experience through active involvement in blood donation drives, tree-planting initiatives, and creative poster-design activities as part of the Youth Red Cross program.

## EDUCATION

2027,MTECH CLOUD COMPUTING,  
SRM Institute of Science and Technology,

Percentage:96%

2025, BTech IT  
SRM Valliammai Engineering College,

Percentage:92.3%

2021,  
12<sup>th</sup>, Sri Sankara Vidyalaya Matriculation Hr sec school, Urappakam,

Percentage:89.6%

2019  
10<sup>th</sup>, Sri Sankara Vidyalaya Matriculation Hr sec school, Urappakkam, 10th

Percentage:80.6%

## PORTFOLIO LINK:

<https://balavignesh2k03.netlify.app/>

## KEY SKILLS

- DATA ANALYTICS
- AWS
- PYTHON
- MACHINE LEARNING
- TEAMWORK
- LEADERSHIP

## AWARDS

- 100% ATTENDENCE IN 2<sup>ND</sup> SEMESTER.
- TOPPER AWARD FOR HIGHEST GPA IN 6<sup>TH</sup> SEMESTER BTech IT.