

# ANANDU ASHOK

**Email:** [anandhuasok@gmail.com](mailto:anandhuasok@gmail.com) | **Phone:** +91-8281365067

**Location:** Bengaluru, Karnataka, India

**LinkedIn:** [linkedin.com/in/anandu-ashok](https://www.linkedin.com/in/anandu-ashok) | **GitHub:** [github.com/ananduashok](https://github.com/ananduashok)

**Kaggle:** [kaggle.com/ananduashok](https://kaggle.com/ananduashok)

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## PROFESSIONAL SUMMARY

Results-driven Data Science professional transitioning from system engineering to data science. Currently pursuing M.Sc. in Data Science with hands-on expertise in machine learning, statistical modeling, and data analysis. Proven track record in automation, problem-solving, and working with large-scale production systems. Seeking to leverage technical background and analytical skills in a junior data scientist role.

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## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, Shell Scripting, R

**Data Science & ML:** Pandas, NumPy, Scikit-learn, Feature Engineering, Data Cleaning

**Machine Learning:** Linear/Logistic Regression, Decision Trees, Random Forest, XGBoost, LightGBM, SVM, KNN, K-Means Clustering, DBSCAN, PCA

**Statistics:** Hypothesis Testing, Statistical Inference, Cross-Validation, Hyperparameter Tuning, ROC AUC Analysis

**Data Visualization:** Matplotlib, Seaborn, Plotly

**Databases:** MySQL

**Tools & Platforms:** Jupyter Notebook, VS Code, Anaconda, Google Colab, Git, Excel

**System Administration:** Linux, Apache, Production Systems, Automation, Log Analysis

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## DATA SCIENCE PROJECTS

### Letter Recognition Classification Model

- Developed multi-class classification model to identify handwritten capital letters from 14,000+ pixel data samples
- Implemented and compared Random Forest, SVM, and Logistic Regression algorithms
- Achieved high classification accuracy across 26 letter classes using feature engineering and model optimization
- **Technologies:** Python, Scikit-learn, Pandas, NumPy, Matplotlib

- **GitHub:** [github.com/ananduashok/Letter-Recognition](https://github.com/ananduashok/Letter-Recognition)

## Healthcare Gallstone Prediction Model

- Built binary classification models to predict gallbladder stone diagnosis using healthcare data
- Evaluated multiple algorithms using ROC AUC, accuracy, and precision-recall metrics
- Applied data preprocessing, feature selection, and cross-validation techniques
- **Technologies:** Python, Machine Learning, Statistical Analysis
- **GitHub:** [github.com/ananduashok/Gallstone-prediction](https://github.com/ananduashok/Gallstone-prediction)

## House Price Prediction Regression Model

- Implemented multiple regression algorithms to predict house prices from structured real estate data
  - Performed comprehensive model comparison using RMSE and  $R^2$  evaluation metrics
  - Applied feature engineering and hyperparameter tuning for model optimization
  - **Technologies:** Python, Regression Analysis, Data Visualization
  - **GitHub:** [github.com/ananduashok/House-Price-Prediction](https://github.com/ananduashok/House-Price-Prediction)
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## PROFESSIONAL EXPERIENCE

### Production Service Systems Engineer 2 | Oracle Cerner

October 2019 – Present | Bengaluru, Karnataka

- Maintain mission-critical production environments ensuring 99.9% uptime for healthcare systems
- Automated monitoring and maintenance workflows using Python and Shell scripting, reducing manual effort by 60%
- Analyze system logs and performance metrics to detect anomalies and optimize system performance
- Collaborate with cross-functional teams to resolve complex technical issues and implement solutions
- Developed data-driven approaches for system monitoring and predictive maintenance

### Linux System Engineer II | ViPoint Solutions

February 2018 – June 2019 | Kochi, Kerala

- Managed production Linux servers and implemented Apache web server configurations
- Automated routine administrative tasks using Python and Shell scripting
- Performed system hardening and conducted regular security audits
- Optimized server performance through data analysis and monitoring

## System Administrator | Ahead Server Technologies

October 2016 – November 2017 | Kochi, Kerala

- Maintained server infrastructure and implemented automated backup procedures
  - Designed and implemented disaster recovery procedures
  - Provided Tier-2 technical support and created comprehensive system documentation
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## EDUCATION

### Master of Science in Data Science

Kalasalingam Academy of Research and Education (CDOE)

2024 – 2025 | Currently in 3rd Semester

### Bachelor of Technology

Ilahia College of Engineering & Technology

2010 – 2014 | CGPA: 6.79

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## CERTIFICATIONS

- **IBM Data Science Professional Certificate** – Coursera
  - **Machine Learning & Data Science** – Illinois Institute of Technology (via Entri Elevate)
  - **Credly Profile:** [credly.com/users/anandu-ashok/badges](https://credly.com/users/anandu-ashok/badges)
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## KEY ACHIEVEMENTS

- Extensive technical experience in production system management and automation
- Successfully transitioned technical skills to data science domain with practical project implementation
- Demonstrated proficiency in **end-to-end machine learning pipeline** development
- Experience working with **large-scale data** in production environments
- Strong background in **problem-solving** and **analytical thinking** from system engineering role