ARVINDKUMAR N R

ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2021	B.Tech Food Technology and Management	National Institute of Food Technology Entrep. and Mgmt	7.36/10
2017	CLASS XII	Maharishi International Residential School (CBSE)	88.4 %
2015	CLASS X	Deshayes Mount School (ICSE)	68.33 %

KEY SKILLS/TOOLS Statistical Data Analysis, Python, R, PyTorch, Pandas, SQL, Tableau, Problem Solving, Time Management

WORK EXPERIENCE (24 Months)

Navarathanam Cotton Ginners — **ICS Manager** — **Salem (Jul '21 - Jul '23)**

Core Functions & Deliverables	■ **Vertically Integrated 3 ICS Groups** with **355+ contract farmers** for Organic cotton prod. through meetings ■ Led the team of **3 Field Off.** & **6 Int. Inspectors** to monitor & guide the farmers with **NPOP & NOP** standards ■ Attained **substantial growth** in **buyers**, managed both int. and external **audit** & resolved **non-conformities** ■ Tackled **project constraints**, evaluated **KPIs** & implemented **Traceability** to track and monitor the produce
Major Initiatives	■ Managed end to end project from **planning & scheduling** to **cost control**, **execution** and **risk assessments** ■ Developed **Dashboards** for regular monitoring using **Tableau** to analyze actual & est. yield, area fig and KPIs
Business Impact	■ Successfully increased **annual revenue** by **4%** and generated **profit** of approximately **Rs 8 lakhs** in FY22-23 ■ Procured over **150MT** resulting in increased yarn production & significant improvement in **quality** standard

AWARDS AND ACHIEVEMENTS

Case Competition	■ **National Winner** of SOLVATHON, a **Business Case Competition** at E-SUMMIT '19 by NIFTEM & won **Rs 20k** ■ Ranked **(Top 4 among 420)** in STATISTILLA, **Annual Dashboarding competition** conducted by **IIT BHU'23** ■ Ranked **7/398** in Spark Tank Analytics, **IIM Rohtak'24** | Ranked **9/940** in IDB Analytics 3.0**, IIM Calcutta '23**
Certifications	■ Completed Winter School on **Deep Learning** course conducted by **Indian Statistical Institute, Kolkata '24** ■ Completed Master **Data Science Program** and Certified Professional in **Adv. Programming** by GUVI & **IIT-M**
Others	■ Awarded **First Class with Exemplary** in **C++** under SUITS conducted by Bharathidasan University in Feb '14

ACADEMIC PROJECTS

Used Cars Price Prediction (Regression)	■ Conducted **Regression** analysis to predict used car price with **1500+** data points and **14** features using **OLS** ■ Applied **Log transformation** to mitigate **Heteroscedasticity**, addressed high **Influential** & **Leverage points** ■ Validated model assumptions, assessed **Multicollinearity** by using **VIF** & Employed **Lasso** for regularization ■ Improved overall **Adjusted R-squared value** from **0.604** to **0.77** & reduced test **MSE** by approximately **37%**
Automated Resume Screening (NLP)	■ Implemented an unbiased resume screening model using **2300+** resumes & standard career job descriptions ■ Labelled the dataset by calculating **cosine similarity** between JD & resumes using **TF-IDF** word embeddings ■ Extracted features using **Word2Vec** and employed **SVM**, **Bi-LSTM** & **BERT**, attaining highest **F1 Score** of 0.74
Australian Airline Revenue Prediction (Time Series)	■ Forecasted Revenue for next **12 months** for an Australian Domestic Airline using **35 years** of historical data ■ Examined the stationarity using **AD-Fuller** test, applied seasonal differencing and detrending to the data ■ Identified **MA** and **AR** orders using **ACF/PACF** and leveraged **Ljung-Box** statistics to verify auto correlations ■ Tuned a **SARIMA** model, achieving **MAPE** ~1.75%, compared models using **AIC** score & reduced MSE by **22%**
Symptoms-Based Disease Prediction (Classification)	■ Developed symptoms-based disease prediction **Classification** model and deployed the model via **StreamLit** ■ Implemented **Chi-Square** feature selection and tested **Decision Tree**, **Random Forest** and **XGBoost** models ■ Tuned **Hyperparameters** via **GridSearchCV,** achieving accuracy of **94.4%** and assessed the impact via **BMC**

ADDITIONAL PROJECTS

Industrial Quality Inspection (CNN & XAI)	■ Developed **CNN** based model to identify defect in cookies using 5k images & performed **Data augmentation** ■ Leveraged **transfer learning** with **ResNet50** and **DenseNet121**, achieving approximately 99% test accuracy ■ Utilized **LIME** to provide insightful explanations & identified specific pixels associated with the defect classes
Recommenders System	■ Built **Content Based Filtering** recommendation system for top k news across 17 categories using news titles ■ Implemented **SBERT** embedding for semantic information and utilized cosine similarity for recommendation
Bank Customer Segmentation	■ Utilized over **1M+** Bank transaction records & Performed **RFM** analysis to understand purchasing behaviour ■ Leveraged **PCA** and applied **K-Means clustering** & determined the optimal no. of clusters via **elbow** method ■ Realized **silhouette** score of **0.652**, indicating well defined clusters and studied the customer segmentations

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

Sports	■ Secured **2nd place** in **Volleyball** during both NSL'19 Sports Meet & NVL'19 Volleyball league held at NIFTEM ■ Secured **2nd** in 4x50m Freestyle Swimming Relay and **3rd** in Butterfly Stroke during School Sports Meet '14

ELECTIVES : Deep Learning, Healthcare Analytics, Leading Teams | **INTERESTS : Volleyball, Listening Podcasts**