

EXECUTIVE SUMMARY

Data Science and Product Professional with 3.5 years of work experience, and strong cross-functional and analytical skills. Experienced in Machine Learning, Deep Learning, Operations Research as well as Product Management (B2B). Curious and quick learner, with a proven track-record for

ideating and delivering innovative approaches to solving business problems. Proven leadership skills, with a collaborative work style. Looking to join a diverse, dynamic, goal-oriented team to drive success in the organization.

FUNCTIONAL EXPERTISE

- Data Science, Data Analysis
- Machine Learning, Deep Learning: end-to end model building
- ETL pipelines
- Explainable AI
- Web Services Design
- UX, CX Design
- Natural Language Processing
- Chatbot Design, Conversational Al
- Data Product Management
- Product Analytics
- Business Intelligence and Reporting

DOMAIN KNOWLEDGE

- Revenue Management (Airlines, Cargo, Hotels, Trains, Buses, Retail)
- Supply Chain Management
- Logistics Optimisation
- Manpower Planning
- Predictive Analytics and Forecasting
- Operations Research

PORTFOLIO

- Github: kavithacd
- Medium: https://cervio.medium.com/

DR. KAVITHA CHETANA DIDUGU

SENIOR DATA SCIENTIST

+91-9558933207 | kavithacd@iima.ac.in | www.linkedin.com/in/kavitha-chetana-didugu/

WORK EXPERIENCE

Senior Product Specialist

HCL Technologies | Hyderabad, India| Jun 2018 - Present

- Built an End-to-End Smart FAQ bot along with Question-Answer-extraction from raw documents: achieved 33% improvement in accuracy as compared to existing bot.
- Created the Production code for the Web-service APIs for the chatbot which can search through a knowledge base of 2.00.000 records within 0.5 sec.
- Built a Tree-based LIME model for explaining black-box models. This model is robust to non-linear decision boundaries as opposed to Linear LIME.
- Conceptualised a universal, language-agnostic AI model explainer. Built the MVP and productised it in 6 weeks.
- Built an intelligent IT ticket assignment model, which improved the ticket assignment accuracy from 40% to 65%
- Identified Northstar Metric and low-level KPIs for Capacity
 Forecast dashboard redesign: 60% less clicks required
- Designed a dashboard for Airline Disruption Management with intelligent re-assignment of capacity from cancelled flights: well received by existing and 70 potential clients
- Headed the transition of Overbooking module to Machine learning Framework, reducing offloading risk by 20%
- Rectified inconsistent marginal values of 40% of the network increasing hurdle rate accuracy by 33%
- Led implementation of a custom enhancement to improve hurdle rate calculation by around 15%
- Led algorithm specifications, model evaluation and performance testing for our microservice product. Reduced testing time by close to 30%
- Provided accuracy and reporting script for performance of the microservice product, reducing the QA's effort by 25%

Transaction Risk Analyst - Buyer Risk

Amazon | Hyderabad, India| Oct 2012 - Apr 2013

- Handled digital, retail orders from US, Canada, EU, UK
- Surpassed target of resolving 16 cases per hour, successfully resolved 22 cases per hour with an accuracy of 99.2%

OTHER PROJECTS AND HACKATHONS

Market Entry Strategy for Indian Custom Printing Industry

Amazon Development Centre | 2014

- Discovered INR 8 bn market potential in India
- Proposed 3 business models for entering into the Indian market
- Identified 2 potential partners: finalised partnership with one

TECHNICAL EXPXERTISE

- Python: Scikit-learn, Tensorflow, Keras, Pandas, Numpy, PySpark.MILib, Elastisearch, Pytorch
- Deployment: Flask, Streamlit
- Big Data: Spark, Hadoop, Kafka
- Oracle SQL, SparkSQL, SQLite
- MS Excel
- Optimisation model: IBM CPLEX, PuLP
- Version Control: Git, GitHub
- Deployment: Flask, Streamlit

AWARDS AND CERTIFICATIONS

- GRE 2018: Overall 327/340 (Quant: 168/170, Verbal: 159/170)
- IELTS 2018: Overall 8.5/9 (Listening:8.5, Speaking:8.5, Reading:8.5, Writing:7.5)
- "Spot Award": Enhancing Overbooking module, JDA-HCL (July 2019)
- "Spot Award": Redesigning UI workflow, JDA-HCL (November 2019)
- Consulting Project (Client-Amazon): Market entry strategies for customised printing business in India. Client Rating 10/10 (January 2015)

LANGUAGES SPOKEN

- English (CEFR C2)
- French (DELF B2)
- Japanese (JLPT N4)
- German (Basic)
- Spanish (Basic)
- Korean (Basic)
- Hindi (Native)
- Telugu (Native Bilingual)
- Kannada (Native Bilingual)

Using Gamification to improve user engagement and retention (fitness app) - Hackathon

Curefit | July 2020

- Performed market research and competitor analysis
- Proposed 2 implementation strategies for user engagement
- One of the strategies is currently implemented in the App

Hack the crisis Sweden - Hackathon

Government of Sweden | Apr 2020

- Ideated a skill-matching app for job search in the Swedish market
- Developed the core algorithm for job-skill matching
- Validated the model and advised on productionising

EDUCATION

University of Texas at Austin

Masters in Artificial Intelligence and Machine Learning | July 2020

Duke Corporate Education

Postgraduate Certificate in Product Management | March 2020

Indian Institute of Management Ahmedabad

Ahmedabad, India

Ph.D. in Production and Quantitative Methods | Mar 2018

Thesis: Essays on Online Hyperlocal Foodservice Marketplaces

University College of Engineering, Osmania University

Hyderabad, India

Bachelor of Engineering, Biomedical | May 2012

- Department Rank 3
- Graduated First Class with Distinction

CONFERENCE PRESENTATIONS

- Distribution network design for a Quick Service Restaurant-Food Aggregator", at 19th International Symposium on Inventory Research (Budapest, Hungary, 2016)
- Vehicle Routing for Online Hyperlocal Foodservice Marketplaces:
 A Constraint Programming Approach" at EURO VeRoLog conference (Amsterdam, The Netherlands, 2017)

CONTACT

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