

# Indu Varshini J

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## EDUCATION

### Amrita School of Engineering, Amrita University.

Coimbatore, TN, India.

*Bachelor of Technology in Computer Science and Engineering.*

2017 – 2021

- CB.EN.U4CSE17121.
- CGPA: 7.96/10.
- *Relevant Coursework* - Data Science, Natural Language Processing, Game Theory, Digital Image Processing, Software Engineering, Database Management System, NetCentric Programming, OOPs.
- Member, Amrita Center for Entrepreneurship (ACE).
- Core Team Member - Photography & Web PR, Developer Student Club - by Google Developers.
- Participant of Indo - French Summer Camp by Amrita - Grenoble University.
- Winner of Paper Presentation Contest in the National Nutrition Week Celebrations held at Amrita.
- Active Volunteer in Care to Care project by the ALIVE club - a Social Service initiative by Amrita.

### Venkatalakshmi Matriculation Higher Secondary School.

Coimbatore, TN, India.

*Higher Secondary Education (HSE).*

2015 – 2017

- Tamil Nadu State board - 1151/1200 (96%) - French, English, Physics, Chemistry, Maths, Computer Science.
- Scored 100% in Maths & Computer Science in the Board Exam.

### Venkatalakshmi Matriculation Higher Secondary School.

Coimbatore, TN, India.

*Secondary Education (SSLC).*

2013 – 2015

- Tamil Nadu State board - 489/500 (98%) - English, Tamil, Maths, Science, Social Science.
- Scored 100% in Maths, Science & Social Science in the Board Exam.

## EXPERIENCE

### City Manager - Shelter Operations, Coimbatore.

May 2019 – May 2020

*Make A Difference (MAD) - NGO.*

Coimbatore, TN, India.

- Built & Maintained Strong Relationships with the 3 key Stakeholders of MAD - Children, Volunteers, and Shelter Authorities.
- Enhancing the overall quality of support Children/Youth get from MAD.
- Provided Continuous Support in Successfully Organising City Events like Volunteer Recruitment, Screening, City Circle & Fundraising Circles.
- Designed an Interactive Dashboard to Analyse the Children/Youth's Performance.

*Sponsorship & Logistics Lead.*

Coimbatore Dream Camp - 2020.

- Raised 1.5L+ Direct and Indirect Funds via Ketto Campaign, Lead Generation.
- Negotiated with the Vendors & saved 50k+ for Food & Accommodation.

### Content Analyst.

Feb. – Mar. 2019

*Alphabets.*

Coimbatore, TN, India.

- Created Maths content in a *fun and interesting* way for the Startup's Online Learning Platform for School Students in Rural Areas.

### Internshala Student Partner 10.

June – Aug. 2018

*Internshala.*

Coimbatore, TN, India.

- Promoted Internshala and its Products successfully among Peers.
- Generated 200+ potential leads for course enrollment.

## TECHNICAL SKILLS & INTERESTS

**Interests:** Data Science, AI in Finance, Agile Software Development, UI/UX Design.

**Languages:** Python3, C/C++, Java, SQL (MySQL), HTML/CSS, JavaScript.

**Frameworks:** Agile, Flask.

**Developer Tools:** Git, VS Code, PyCharm, Eclipse, Jupyter Lab, Adobe XD, Adobe Illustrator, Tableau, Android Studio, MATLAB.

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn.

## PROJECTS

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- Faculty Profile Builder** | *Android Studio, Firebase, Jenkins, SonarQube, Espresso, Jira.* Dec. 2019 – Mar. 2020
- Simple, Scalable Android App to check the profiles of faculty.
  - Updated User Stories and issues in Jira and tracked the Software Development process periodically.
  - Conducted various Ceremonies of Agile Software Development.
  - Performed Unit Testing using JUnit in Android Studio.
  - Deployed the app in GitHub & created a Pipeline in Jenkins for Continuous Integration, Testing, Sending update emails to collaborators & Generating APK.
  - Aided the Team Members in Installing & Setting up the Tools & Softwares.
- Portfolio Optimization using AI** | *Python3, Pandas, Scipy, Tensorflow, Tableau, GitLab.* May 2020 – Present
- To generate an Optimized Portfolio based on Post Modern Portfolio Theory using Deep Learning Models.
  - Studied various Portfolio Optimization techniques & Strategies in Finance.
  - Visualized the data in Tableau.
  - Enabling other Team Members to learn new concepts & tools in Finance & Deep Learning.
- Diabetes Risk Analysis** | *Python3, Numpy, Pandas, Scipy, Sklearn, Matplotlib, Seaborn.* July 2020 – Present
- Balanced the dataset using the SMOTE technique.
  - Performed Exploratory Data Analysis & Descriptive Analysis.
  - Used Stratified Cross-Validation for splitting the data into train & test.
  - Applying Adaboost & Hyperparameter Optimization for low variance model.
  - Explored new techniques to solve Classification ML problems.
- Nifty 50 Index Forecasting** | *Python3, Numpy, Pandas, Scipy, Sklearn, Matplotlib, Seaborn.* July 2020 – Present
- To predict the Nifty 50 index value for the upcoming days using Regression techniques and testing the hypothesis.
  - Fetched the time-series data from the NSE website.
  - Performed Exploratory Data Analysis & Descriptive Analysis.
- Stock Market Sentiment Analysis** | *Python3, Pandas, NLTK, Tensorflow.* July 2020 – Present
- To predict the Trend of Stock Market based on Financial News.
  - Creating Text Corpus by scraping Financial News from FinViz and Moneycontrol.
  - TF-IDF vectorization & Probabilistic Language Models to predict the polarity of words in the Corpus.

## WORKSHOPS/TRAINING/SEMINARS

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- Women's Summit 2019 - TiE, Coimbatore. 29 Aug. 2019
- Make A Difference Leadership Conference, Hyderabad. June 7 - 9, 2019
- Archimaze AR/VR Workshop at 9th Anokha Techfest, Amrita, Coimbatore. Feb. 14 - 16, 2019
- Ethical Hacking Workshop by Amrita CyberSecurity Dept. and i3Indiya Technologies, Coimbatore. July 2018
- Codechef Data Structures & Algorithms Summer Workshop, Hyderabad. May 2018
- Intel Machine learning and Deep Learning Workshop at 8th Anokha Techfest, Amrita, Coimbatore. Feb. 15 - 17, 2018
- BlockChain Technologies by TIFAC- CORE in Cybersecurity at Amrita. Mar. 15 - 17, 2018
- Amrita TKnow Club's MEAN Stack Web ChatApp Workshop, Coimbatore. Jan. 2018

## ACHIEVEMENTS & CERTIFICATIONS

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- Exploratory Data Analysis** with Python and Pandas- Guided Project - *Coursera Project Network.*
- Cambridge English Level 1 Certificate in ESOL International (**Business Vantage**) Exam - *Score 168/180.*
- Intro to The **Design of Everyday Things** by Don Norman - *Udacity.*
- Cambridge Certification Authority - **CCA Java Level 1.**

## VOLUNTEERING EXPERIENCE

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- Volunteer in the District Level Children's Day Celebration at Nirmala College, Coimbatore. Nov. 2019
- Academic Support Volunteer in Make A Difference at PSG Manavar Illam, Coimbatore. Jul. 2018 - Apr. 2019

## PERSONAL DETAILS

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- Address:** 43, B.R. Nagar, Singanallur Post, Opp to CBE Stock Exchange, Coimbatore, TN - 641005.
- Date Of Birth:** January 4, 2000.
- Languages Known:** Tamil, Telugu - *Native/Bilingual.* English - *Professional Working Proficiency.* French - *Beginner.*
- Hobbies:** Gardening, Photography, Doodling, Interior Decoration, Cooking.