

KRISHNA DIVYA

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EDUCATION

Bachelor of Engineering, Computer Science Engineering
KGiSL Institute of Technology – Affiliated to Anna University.

May 2019

CGPA: 7.44/10; 3.1/4.0

PROFESSIONAL EXPERIENCE

Data & Analytics Platform Engineer- Microsoft Azure, TCS – Kochi, Kerala Apr '21 – Present

- Created and Managed the **Azure Platform** - Resources and Services with strong understanding of **Microsoft Azure Platform as a Service** (PaaS) products such as Azure SQL, App Service's and Server less services.
- Delivered** network security and routing, including virtual networks, web application firewalls and load balancing rules with basic understanding of **Azure DevOps**- Azure Boards, Pipeline deployments, Repos.
- Supported the project team by resolving issues during code releases.
- Worked and monitored housekeeping works on Storage Accounts, Synapse and SQL Databases.

Developer- Azure Cloud Migration, TCS – Kochi, Kerala Sep '20 – Mar '21

- Performed Migration of On-premise data from various sources into **Azure cloud**.
- Automated the data transfer from source to Hive through scripts and implement migration for **Azure Data Factory (ADF)** in various layers
- Controlled the pipelines and workflows for orchestrating data movement and transformed data at scale.
- Performed tests and troubleshoot the migrated systems on virtualized architecture.

SAP Techno-Functional Analyst, TCS – Kochi, Kerala May '19 – Aug '20

- Provided Functional and Technical support for a utility project on **SAP ISU Switching domain**
- Monitored daily running activities.
- Handled incidents on the **ISU Switching domain**, and delivered the best customer focused solution with good understanding of the business functionalities.
- Executed change requests** - Implementing the best-suited alternatives for existing process and thereby helped users with improved efficiency. **Optimized Delivery Management**: Including units and integration testings.

Business & Data Analytics - Co-Founder, [Fresco Structures](#) – Coimbatore, Tamil Nadu Nov '20 – Present

- I assisted the engineer to choose the best possible solution for client using data analysis and visualization.
- Revenue generated were contributed to Educational Expense of Social and Economically backward students.
- Seashore Resort in Cape Comorin - Building type analysis using data to find the best optimal type of buildings.
- Analyzed to find the best economical building to produce a high return on investment for clients and architects based on available data using Tableau.

TEACHING EXPERIENCE

Volunteer Teaching, KGiSL 2018 – 2019

- Assisted faculty by conducting session in **Cloud Computing** for part-time UG students.
- Organized and tutored special classes, academic laboratory and seminars on subjects and software tools to develop technical skills for sophomores. Advised frosh students in computer science department on trends and recent inventions.
- Improved juniors study skills, including note making, exam preparation and time management.

RESEARCH EXPERIENCE

Research Assistantship, Department of CS & IT, KGiSL. Apr '18 – Aug '18

Visitor management system using LARAVEL PHP. Under the guidance of **Ms. Aruna**.

- Involved in data collection and analysis on one of the three modules (Host Employee) in the research.
- Assisted the professor in developing front-end page using PHP and learned basics of Lavarel.
- Worked on creating and managing the administration module database management system using SQL queries.

RESEARCH (2019-2021)

- Learning **Data Analysis and visualization** using various programming languages.
- Interested in research on real time prediction model using Cloud Analytics and Data Science – Statistical & Probabilistic methods.

Current Research works:

Regression Analysis for prediction of Strength properties of Eco Friendly geopolymers lightweight concrete using MATLAB and Excel Jul '21- Current

- Assisted a colleague in his ML project to predict the strength properties of construction material-concrete.
- Performed EDA of data and Linear regression analysis between strength properties.
- Used MATLAB and Excel to find least error in accuracy of predicting split tensile and flexural strength.

PROJECTS (2019-2021)

Automation in construction design using PyAutoCAD & RevitPythonShell.

2021

- Coded snippets for the design and visualization of concrete footings, beams and Columns as per IS code.
- Created python snippets using PyAutoCAD to automate beam design in AutoCAD.

Python script for Beam Analysis and Reinforcement Visualization.

- Python script for calculating and plotting Maximum SF, BM and deflection for simple beams using matplotlib.
- Model a 3D Concrete beam using Python script. Visualized the rebar detailing using 3D Scatter plot

Mathematical Programming - using Python and MATLAB.

2020

- Coded Genetic Algorithm in ML, Particle Swarm Optimization and Firefly optimization algorithms.
- Programmed and solved Linear programming problem and Principal Component Analysis problems.
- Implemented fourth order Range-Kutta method using Prey-Predator system as example and Least Square method.
- Programmed Numerical root finding (Secant, Newton Raphson and Bisection methods).
- Solved Numerical computation involving [Eigen vectors & value, Numerical Integration using integral and Quadgk, Ordinary Differential Equations (ODEs)]

Miscellaneous Projects:

2019

- **AR:** Built an android app using Vuforia for Unity. Renders 3D models when base image is detected using camera.
- **3D-Environmental Modeling:** Created environments using World Machine to link up with unreal and unity, with detailed lighting, sprites and 3D character physics.
- **IoT:** Programmed an Arduino Uno to play piano notes mathematically and synchronized with LEDs.

ACADEMIC PROJECTS (2015-2019)

- **Price Change Notification Bot** using UiPath, RPA
- **Anna University Mark-List** Manipulation and Result Analysis, UiPath, RPA
- **Aware Zo**, a creative webpage created to build general awareness on Junk food and its various health issues/measure among school students and their Parents
- **Smart City- Complaint Portal**, a webpage to post complaints on the environment issues to the state government.

SKILLS AND TOOLS

Programming: C, C++, Java, Python, R *, ABAP (Beginner), Spark*.

Scripting Language: Java script*

Operating Systems: WINDOWS, LINUX.

Designing Languages: HTML, CSS.

Visualization Tools: Power BI, Tableau, Microsoft Excel, MATLAB*

RPA: UiPath.

AR: Vuforia apps.

Database Language: SQL, SQL/ XML*

Cloud Computing: Microsoft Azure, AWS.

Languages: English, Tamil, Hindi, Telugu, Malayalam.

IoT: Arduino-Uno [c++]

CERTIFICATIONS & CONTINUING EDUCATION

- Azure Fundamentals- AZ-900, Azure Administrator AZ-103, UiPath Foundation Training 2018.3
- Java Programming, UNIX , SQL
- BEC (British English Council) Certified Person

NPTEL: PSO/GA- Non-Traditional and Traditional Optimization tools †, Machine Learning (ML) †, Robotics*, Introduction to IoT and Industry 4.0*.

Coursera: AI, Computer vision, Python programming for everybody, Deep learning and Neural Networks

- **Specializations** – MATLAB*, Mathematics for ML, IBM Data Analyst.
- **Guided projects** – Data analytics using R.

LinkedIn - Learning Paths: Cloud - Fundamentals, DS - Python & SQL, Business Analyst - Power BI, Tableau.

Udemy: Python Animations, Optimization Algorithms, Data science & Machine Learning.

† Audited Courses

* Ongoing Courses

APPRECIATIONS/AWARDS

- Received **On-the Spot Award**, nominated by the **Project Manager**.
- Awarded **Star of the month** for the hard work, dedication and continuous learning excellence in ISU Switching.
- Appreciated from the client twice for solving the incidents in short span of time.
- Appreciated for weekend and late-night efforts in completing the task by the **project manager**.
- **MOC:** Introduces guests, speakers, or performers at a formal event.

MEMBERSHIPS/VOLUNTEERING

- Member of English Literacy Club, KGiSL Institute of Technology
- Volunteer, Organizer of many Inter/Intra college Events- Technical/ Arts
- CSE Department Girls Representative (2015-2019).