

# BINDU MADHAVI V

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## EXPERIENCE

### IAS-INSA-NASI

May 2024-July 2024

*Summer Research Fellow at IIIT Dharwad*

*Dharwad, Karnataka*

- Selected as a summer research fellow by the three prestigious science academies to conduct research under the guidance of **Dr Pavan Kumar C.**
- Worked on the project, **Simulating and Enhancing Network protocols in NS-3**

## PROJECTS

### PCOS Detection | Machine Learning

Feb 2024

- Decision tree with criterion Gini index** outperformed with **88.07% accuracy** among single classifiers while **Gradient Boost** stood out with an **accuracy of 91.74%** among bagging and boosting algorithms.
- The **Ensemble classifier ensemble model** involving **bagging, boosting and single classifiers** brought **95.41% accuracy.**
- Results were interpreted using Explainable AI such as LIME and SHAP.

### Acme: Nextjs Dashboard App | CSS,Nextjs,Typescript,Tailwind,Rest APIs

Feb 2024

- This app is hosted on Vercel.
- A simple dashboard app having a public home page and login page. Dashboard pages are protected by **authentication.**
- Users can add, edit and delete invoices.

### GistIt: An AI Text Summarizer | HTML5,CSS,Nodejs,Expressjs,REST APIs

Oct 2023

- This application allows users to enter or paste their long texts and get a summary in return.
- Facebook's BART LARGE CNN model** was used to summarize text.

### Rainfall prediction for next harvest year | Machine learning

Oct 2023

- This project was done as a part of **IBM Z Datathon**
- ML techniques like **Random Forest, Ridge Regressor** and **K Neighbors Regressor** were used.
- Results were interpreted using matplotlib.

## CERTIFICATIONS

- MongoDB - The Complete Developer's Guide 2024
- Engineer Learning path - Postman
- Microsoft Azure Fundamentals: Describe cloud concepts
- Microsoft Azure AI Fundamentals: AI Overview
- Microsoft Azure AI Fundamentals: Generative AI
- Develop Generative AI solutions with Azure OpenAI Service
- Create computer vision solutions with Azure AI Vision
- Develop natural language processing solutions with Azure AI Services
- The Complete 2024 Web Development Bootcamp - Udemy
- Computer Networks and Internet Protocol - NPTEL

## TECHNICAL SKILLS

**Languages:** C/C++, Python, Javascript, Typescript, SQL, HTML/CSS

**Technologies/Frameworks:** Git/Github, MongoDB, Postgres, Jquery, Express, NodeJS, ReactJS, NextJS, Rest APIs, Bootstrap, Tailwind, Scikit-learn

**Developer Tools:** VS Code, Jupyter notebook, Power Apps, Postman, Canva

## EDUCATION

### Global Academy of Technology

Dec 2021 – Present

*B.E - Computer Science and Engineering - CGPA - 9.69*

*Bengaluru, Karnataka*

## ACHIEVEMENTS

- Presented a paper titled, **Efficient Battery Management Systems in Electric Vehicles using AI and IoT - A Literature Survey** at **ICASEM 2024** Conference