JAHNAVI J P

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EDUCATION

- **Acharya Institute of Technology (VTU)** Bangalore, India
  Bachelor of Engineering - Computer Science; CGPA: 9.56

SKILLS SUMMARY

- **Languages:** C, Python, Java, SQL, HTML, CSS, JavaScript
- **Frameworks & Stacks:** MERN (MongoDB, Express.js, React.js, Node.js), Django, Flask, Hadoop
- **AI/ML:** TensorFlow, PyTorch, scikit-learn, Keras, XGBoost, OpenCV, MNE-Python, Natural Language Processing
- **Big Data Tools**: Hadoop (MapReduce, HDFS, YARN), Apache Hive, Spark MLlib, Apache Pig
- **Databases:** SQL, MongoDB**,** Hive
- **Tools:** Jenkins, Maven, Gradle, Power BI, Tableau, Excel, Git, GitHub
- **Soft Skills**: Project Management, Team Leadership, Communication, Problem Solving, Creative Thinking

EXPERIENCE

Student Researcher – Epileptic Seizure Detection June 2024- November2024

- Conducted EEG-based epileptic seizure detection using ML and DL models (SVM, CNN, RNN), with Python-driven feature extraction and analysis, achieving high accuracy to support early diagnosis.

CodSoft – Web Development Intern July 2024-August 2024

- Completed three development tasks using HTML, CSS, and JavaScript, including a personal portfolio website, a responsive landing page, and a functional calculator. Strengthened skills in UI design, layout structuring

Startup Incubation Project – Product Innovator Remote

- Developed eco-friendly tissue paper from dry leaf waste, contributing to sustainable living and promoting sustainability through digital outreach; designed a product advertisement using frontend technologies like HTML, CSS, JavaScript, and Tailwind CSS, and initiated the patent process after selection for incubation support.

PROJECTS

- **Dream Capture AI – TensorFlow, Keras (https://github.com/jahnavi2056/DreamCaptureAI)**
  A deep learning system aimed at decoding and reconstructing dream content using EEG signals. Leveraging CNN/RNN architectures built with TensorFlow and Keras, the project interprets neural patterns during REM sleep and attempts to visualize them as images or stories.
- **Prefix-Based Keyword API – Node.js, Express.js, React.js, Render (https://github.com/jahnavi2056/prefix_management)**
  Developed and deployed a RESTful API that accepts a list of keywords and returns the smallest unique prefix for each. Implemented efficient prefix detection logic in JavaScript, served through Express.js, and hosted on Render for live testing and interaction.
- **Virtual Health Assistant – Hadoop, PySpark, MongoDB (https://github.com/jahnavi2056/BDA)**
  A big data-driven health assistant that analyzes patient symptoms, history, and patterns using the Hadoop ecosystem. PySpark processes large datasets while MongoDB stores patient histories. It supports symptom-based recommendations, suggesting health tips.
- **AI Design for Artisans – Stable Diffusion Model, Diffusers (https://github.com/jahnavi2056/Artisans_Stable_diffusion_model)**
  This tool generates AI-assisted 3D prototype designs for pottery and handicrafts. By accepting user input (text, color, and shape cues), it uses the **Stable Diffusion** model via Hugging Face Diffusers to create custom design suggestions.
- **DocuBot – Flask, Sklearn, PyPDF2 (https://github.com/jahnavi2056/DocuBot)**
  Conversational AI chatbot that extracts, indexes, and answers questions from uploaded PDF documents using TF-IDF and cosine similarity.

ACHIEVEMENTS

- **Research Publication (2024):** Authored a research paper published as a chapter in Neural Nexus Journal (indexed in WoS).
- **Winner - State Level Srishti Hackathon (2024):** Secured 2nd place in a 48-hour hackathon organized by VTU and AIT.
- **National Finalist - E-Yuva BIRAC Competition (2024):** Selected for the final round presentation in a National competition by Anna University.
- **Incubation Support Recipient (2024):** Received project incubation support from Acharya Institute of Technology.
- **State-Level Ideathon Finalist (2024):** Achieved Top 10 Finalist position in a state-level competition.
- **State-Level Power Lifting (2023):** Secured 3rd Place in the VTU Inter-collegiate Power Lifting Competition.
- **National Handball Representation:** Represented the Karnataka State team and VTU University in multiple national championships (2015, 2019, 2022-23, 2023-24).

CERTIFICATIONS

- **AI & Data Science:** Artificial Intelligence (NLP, ML, DL, CV), Data Science, Data Analytics, Machine Learning (Infosys Springboard, authorized by Google and IBM through Coursera)
- **Programming & Databases:** C & C++ Programming, Python Programming, Data Structures & Algorithms, RDBMS-SQL (Infosys Springboard, Simpli Learn, Coursera)
- **Web Development:** HTML, CSS and JavaScript (authorized by IBM offered through Coursera)
- **Cloud & Data Visualization:** Cloud Computing (NPTEL), Tableau and Power BI (Infosys Springboard)
- **Productivity and System Development** authorized by University of California.
- **HackerRank and LeetCode:** Solved many questions and gained certifications.