VIGNESH K

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Backend developer

I'm a passionate backend development enthusiast eager to build a meaningful career in backend technologies. I'm currently sharpening my expertise by learning modern backend frameworks and best practices. Alongside, I'm also expanding my knowledge in Artificial Intelligence and exploring how AI tools can enhance backend systems. With each project, I'm focused on writing clean, efficient code, understanding scalable architectures, and staying aligned with industry trends.

SKILLS

TECHNICAL SKILLS:

- **Programming:** Python, Java, Node.js
- **Frameworks & Technologies:** Django, Flask, Spring Boot, NumPy, Pandas, Matplotlib, Seaborn
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite
- **Frontend Technologies:** HTML, CSS, JavaScript
- **API Development & Testing:** RESTful APIs, JSON, Postman
- **Version Control:** Git, GitHub
- **Operating Systems:** Linux
- **ORM & Data Handling:** Django ORM
- **Testing & Debugging:** Unit Testing, Postman Testing, Error Handling
- **Cloud Platforms (AWS):** EC2, S3, RDS, EBS, EFS, VPC, DynamoDB, Lambda, IAM, SNS, SQS, CloudFront, Route 53, KMS, CloudWatch, Redshift, Trusted Advisor, Billing & Cost Management
- **AI Tools & Prompt Engineering:** ChatGPT, Claude AI, Gemini AI, Perplexity AI

SOFT SKILLS:

- **Collaboration & Leadership**: Effective communication, team coordination, and deadline management
- **Cognitive Abilities**: Strong critical thinking and analytical problem-solving skills
- **Personal Traits**: Fast learner, adaptable, proficient in time management
- **Work Methodologies**: Agile practices, familiarity with Software Development Life Cycle (SDLC)

WORK EXPERIENCE

Cloud Engineer Intern   02/2025 - 04/2025
CogniMinds, Bangalore, Karnataka
- Deployed an Attendance Management System used by 6+ employees, ensuring 88.8% uptime via AWS EC2 & S3
- Designed and deployed a scalable Attendance Management System using EC2 and S3 for backend infrastructure.
- Monitored server activity using AWS CloudWatch and reduced downtime events by 20%

Data Science with Python Intern   04/2024 - 06/2024
Smarted Innovations, Bangalore, Karnataka
- Gained hands-on experience in Python and built 2+ AI-based projects, improving coding speed by 40%
- Developed a content-based Movie Recommendation System with the TMDB dataset, applying cosine similarity based on genre, cast, and keywords
- Applied text preprocessing and NLP techniques to clean, vectorize, and merge metadata for accurate recommendations.
- Built a language translation tool supporting 2+ languages, enabling real-time translation

PROJECTS

Spam Detection System

- Built a spam email/SMS classifier using Natural Language Processing (NLP) techniques.
- Used Bag of Words and TF-IDF for text feature extraction.
- Trained machine learning models like Naive Bayes, SVM, and Logistic Regression.
- Evaluated model performance using metrics like accuracy, precision, and recall.

Movie Recommendation System

- Built a movie recommendation system using content-based filtering techniques.
- Utilized movie metadata (genres, overview, cast, crew) for feature engineering.
- Applied cosine similarity on TF-IDF vectors to find similar movies.
- Deployed the model using Streamlit for an interactive web interface.

CERTIFICATIONS

Introduction to Artificial Intelligence   11/2024 - 12/2024
IBM
Problem Solving and Controls   11/2024 - 11/2024
IBM
Communication and Personality Dynamics   11/2024 - 11/2024
IBM
Python for Data Science   01/2024 - 02/2024
NPTEL
Programming in Java   08/2023 - 10/2023
NPTEL

EDUCATION

Bachelor's in Computer Applications (BCA)   09/2022 - 06/2024
Dr NSAM First Grade College
CGPA: 9.5
Pre-University (PU)   08/2020 - 07/2022
Seshadripuram Pre-University College
Percentage:87.17%
Secondary School Leaving Certificate (SSLC)   01/2018 - 01/2020
Government Boys High School
Percentage:64.48%

ACHIEVEMENTS & LEADERSHIP

Dr. NSAM First Grade College

- Winner – 3rd Place in Coding & Debugging Competition .
- Event Volunteer & Department Coordinator
- Class Representative – Semester II

Atria Institute of Technology (Inter-College Fest)

- Winner – 3rd Place in IT Quiz

LANGUAGES

English – Proficient
Marathi – Native
Kannada – Proficient