VALLABH PATIL

Mobile : +44 7769373316 .
Email : vallabhpatil777@gmail.com
Address : Newport, Wales, UK, NP19 8DW

LinkedIn : www.linkedin.com/in/vallabh-patil-63248b144.
Portfolio : https://vallabh-portfolio777.netlify.app
Github : https://github.com/vallabhpatil777

SUMMARY

MSc Advanced Computer Science graduate from Cardiff University, UK. Proficient in Python, React, Django, Java, TypeScript, Machine Learning and Data Analytics. Actively seeking opportunities as a Full Stack Software Developer to leverage my expertise and embrace new technologies. Eligible to work in the UK.

EDUCATION

MSc in Advanced Computer Science   **Cardiff, UK**

Cardiff University | Grade : **Distinction**   **September 2023 - September 2024**

Modules : NLP based Dissertation (scored 82%)**,** Machine Learning, NLP, Knowledge representation, Computer Vision, Cloud Computing, Developing Secure Systems, Penetration testing, Malware Analysis.

PG-Diploma in Artificial Intelligence   **Pune, India**

Centre for Development of Advanced Computing | Grade : **A**   **March 2023 - August 2023**

Modules : Python, Machine Learning, Data Analysis, Deep Learning, Natural Language Processing, Computer Vision, Java

Bachelor of Engineering in Computer Science   **Pune, India**

SKN College of Engineering | Grade : **7.77 / 10 CGPA**   **August 2016 - May 2020**

Modules : Database Management, Data Structures and Algorithms, Internet Of Things, Human Computer Interaction, ML

SKILLS & INTERESTS

Frontend : React , Redux Toolkit, JavaScript, TypeScript, TailwindCSS, BootStrap, HTML5, ThreeJS, Shopify.

Backend : Python, Java, Django, SpringBoot, Flask, NodeJS, ExpressJS, NestJS, RestAPI Development.

Cloud & DevOps : AWS Fundamentals, Docker, GitHub, Jira, Jenkins.

AI / ML and Data Analysis : Tensorflow, ComputerVision, NLP, ML Algorithms, Deep Neural Network, Familiarity of AI Agents and LLMs, Data Visualization, Data Preprocessing, Familiar with PyTorch.

Databases : MySQL, PostGreSQL, MongoDB, Oracle Database.

Tools & Technologies : BlockChain Fundamentals, VS Code, Postman, SpringToolSuite, PyCharm, GoogleColab, JupyterNotebook.

PROFESSIONAL EXPERIENCE

Frontend Developer Intern, Risidio   **January 2025 - Present**
London, UK
- Designed and built responsive, reusable components using **Figma, React, NodeJS, Redux Toolkit, TypeScript, SCSS**, and **Tailwind CSS**, ensuring seamless user experiences and high performance.
- Managed data efficiently with **PostgreSQL** and **Prisma ORM**, streamlined workflows using **Docker,** and collaborated in agile teams with **Git**, actively participating in daily standups and scrum meetings.
- Expanded expertise by developing backend solutions with **NestJS.**
- Researching **LLMs**, **AI agents** integration with blockchain for upcoming project.

Associate Software Engineer, Accenture   **January 2021 - July 2022**
Bangalore, India
- Managed 50+ change processes and handled software package releases, developed and maintained backend solutions using **Java** to deliver scalable and secure systems, supporting multiple deployments.
- As part of data management, optimized database performance by refining **MySQL** queries, achieving a 15% improvement in efficiency, and streamlined collaboration using **Git** for version control across a team.
- Collaborated within agile Scrum teams, handling tickets, conducting sprint planning, demos, and retrospectives via **Jira**, while actively contributing to application testing, new releases, and gathering business requirements for key changes or updates.

PROJECTS

Ontology-Driven Medical Data Analysis (Master's Dissertation)   **2024**
- Conducted ontology-driven analysis of medical data using NLP techniques and transfer learning with **BERT** and **BioBERT** LLMs**.**
- Utilized Named Entity Recognition (NER) for extracting key medical entities from PubMed articles.
- Leveraged OCD ontology for robust feature extraction and classification tasks.
- Demonstrated proficiency in **Python, BERT/BioBert LLMs, TensorFlow, Scikit-learn, NER** and **Owlready** for ontology integration and data processing.

Spam Email Detection Web Application   **2024**
- Built a Streamlit-based application to classify emails and SMS messages as Spam or Not Spam using NLP techniques.
- Implemented Multinomial Naive Bayes with TF-IDF vectorization, achieving 98% precision.
- Designed an interactive and user-friendly interface for real-time predictions.
- Demonstrated expertise in **Python, Git, Streamlit, nltk, Scikit-learn** and data preprocessing.

Face Mask Detection Web Application   **2024**
- Developed a Flask-based application to detect face mask usage in real-time using webcam integration.
- Trained a fine-tuned VGG16 model on 7,000 images with data augmentation, achieving 96% accuracy.
- Designed a user-friendly interface for seamless interaction and demonstrated proficiency in **Python, Git, Flask, Transfer Learning, TensorFlow, Keras, OpenCV and Scikit-learn**.

CERTIFICATIONS

- Build a Backend REST API with Python & Django - Advanced, Udemy   **July 2024**
- Diploma in Artificial Intelligence, CDAC Pune India   **August 2023**
- Python programming language, Udemy   **August 2022**
- C/C++ , N infinity Engineering Academy   **June 2017**