Shivam Singh

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EDUCATION

FRIEDRICH-ALEXANDER-UNIVERSITÄT

M.Sc. in Data Science
Pursuing | Erlangen, DE
Grade: 1.6

CHANDIGARH UNIVERSITY

B.E in Computer Science Engineering
July 2019 | Punjab, IN
First Division with Distinction
CGPA: 8.05 / 10

LINKS

LinkedIn:// **shivam-singh-ai**

COURSEWORK

GRADUATE

Deep Learning
Pattern Recognition
Pattern Analysis
Machine Learning for Time Series
Explainable Machine Learning
Business Intelligence
Data Science Survival Skills
Mathematics of Learning

UNDERGRADUATE

Machine Learning
Artificial Neural Network
Big Data Analytics
Data Structures
Design & Analysis of Algorithms
Software Engineering

SKILLS

PROGRAMMING

• Python • C • C++ • Java • SQL

OTHER TOOLS & PACKAGES:

• Pandas • Numpy • Matplotlib • Scipy
• Plotly • Tensorflow • Keras • PyTorch
• Scikit-Learn • Langchain • OpenAI
• Streamlit • GIT • DataBricks • PySpark
• JIRA • Hugging Face • Transformers
• JAX • NLTK • spaCy • Azure ML • AWS CLOUD

EXPERIENCE

SIEMENS HEALTHINEERS | Working Student Data Scientist

May 2024 - Present | Erlangen, DE

- Developed AI prototypes using LangChain for Retrieval-Augmented Generation (RAG) and classification tasks, improving the efficiency and accuracy of solutions.
- Fine-tuned large language models (LLMs) using Parameter-Efficient Fine-Tuning (PEFT) techniques to enhance task-specific performance.
- Collaborated with cross-functional teams to integrate advanced NLP models, contributing to innovation in AI-driven solutions.
- Utilized MLOps best practices to streamline deployment processes for AI applications.

SIEMENS AG | Working Student Natural Language Processing

November 2023 - April 2024 | Munich, DE

- Applied LLMs (e.g., GPT, LLaMA) models for tasks including question answering, classification, and data augmentation.
- Conducted prompt engineering to tailor AI models, improving response relevance and effectiveness.
- Extracted valuable insights from diverse use cases using classical Machine Learning methods and Data Analytics tools.
- Performed data cleansing and feature engineering for machine learning models, ensuring data quality for AI development.

WIPRO LIMITED | Associate Consultant

June 2019 – November 2020 | Mumbai, IN

- Led end-to-end project implementation in Salesforce including requirements gathering, coding, solution design, testing and deployment.
- Extracted, manipulated, evaluated and analyzed data to support business decisions.
- Demonstrated excellent problem-solving skills and a strong attention to detail, while also being able to work independently and think critically.

CAPGEMINI | Business Intelligence Intern

January 2019 – April 2019 | Bengaluru, IN

- Developed and implemented Python scripts to automate ETL processes.
- Worked on Big Data tools like Hadoop, Hive, Cassandra, Kafka, Pyspark etc.
- Constructed and optimized SQL queries for complex data retrieval.

PROJECTS & CERTIFICATIONS

Transformers Model from Scratch in Python
GPT-2 from Scratch in Python
AWS Certified AI Practitioner
DeepLearning.AI TensorFlow Professional Certificate Developer

- Introduction to TensorFlow for AI, ML & DL.
- Convolutional Neural Networks in TensorFlow
- Natural Language Processing in TensorFlow
- Sequences, Time Series and Prediction

DeepLearning.AI Generative Adversarial Networks (GANs) Specialization

- Build Basic Generative Adversarial Networks (GANs).