ANUSHKA DHEKNE

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SUMMARY

Innovative Data Scientist and Machine Learning Engineer specializing in NLP, LLMs, Python, and cloud technologies. Proficient in transforming complex datasets into actionable insights, building and deploying robust AI models, and optimizing data pipelines. Adept at leveraging Python, cloud technologies, and advanced analytics to drive impactful solutions. I am committed to delivering high-quality results through technical expertise, critical thinking, and collaborative problem-solving.

EXPERIENCE

Cerebrone.ai (Cloud Intern, USA) ***Aug 2023 to Dec 2023***

- Customized user data accounts and managed cloud infrastructure using **AWS EC2** and advanced **Linux** operations, streamlining processes for improved efficiency and optimized project execution.
- Designed and implemented scalable solutions for Edge AI Cloud Labs using **Agile** methodologies, enhancing the **SDLC**.

Harbinger Group (Software Engineer, India) ***July 2020 to July 2022***

- Engineered a system to predict and analyze brain-related medical conditions by achieving **93%** accuracy using **FreeSurfer** and **PowerBI**, with a **20%** reduction in data interpretation time and increasing user engagement through **Streamlit** UI.
- Enhanced **QA** efficiency for an E-Learning Application, by reducing bug resolution time by **30%**, and improved application stability by utilizing advanced automated testing techniques, CI/CD pipelines, A/B testing, and comprehensive regression testing.
- Implemented an **NLP** system with NER for ICD-10 keywords using **Flask**, cutting diagnostic errors by **25%**, increasing processing speeding up the symptom-prediction process, and improving user satisfaction by **15%**.
- Spearheaded a robust job **recommender** system via **ETL** and **CI/CD**, improving model efficiency and job-candidate matching accuracy by **20%,** leveraging fine-tuned **BERT** models while reducing manual intervention.

Indicus Softwares Private Limited (Software Engineering Intern, India) ***Sept 2019 to April 2020***

- Engineered a user-friendly **Android** application for vehicle pooling, utilizing **Firebase** for robust data handling and real-time updates.
- Integrated Geofence and Google Maps **APIs** to enable precise route selection and vehicle tracking, enhancing accuracy by **35%**. The location-based notifications led to a **20%** increase in user engagement and a **15%** reduction in passenger waiting times. [Paper]

SKILLS

Programming Languages:	C, C++, Python, R, MySQL, Java, JavaScript, Golang, HTML, CSS
Frameworks:	Flask, Django, Fast API, Streamlit, Bootstrap, TensorFlow, PyTorch, Spark, Agile, SAS, Anvil
Tools:	Git, JSON, Workato, ETL, JIRA, Docker, Postman, PowerBI, Tableau, D3.js, FIGMA, Google Charts,
Methodologies:	Web Development, SDLC, CI/CD, MLOps, RESTful, OOP, Data Analytics, NLP, Pandas, NumPy, SpaCy, Keras, Matplotlib, EDA, Scikit-Learn, Transformers, ML/AI, GenAI, LLMs, Prompt Engineering
Platforms/Databases:	AWS, Linux, GCP, MS Excel, SQL, Oracle, MongoDB, PL/SQL, Big Data

ACADEMIC PROJECTS

- **YouTube Trending Videos Analysis | PowerBI, Tableau, Python, D3.js, Google Charts, Matplotlib, Seaborn, Plotly |** GitHub
  Developed a data visualization application for analyzing and visualizing trending YouTube video data, leading to a 40% improvement in business intelligence reporting. Leveraged Tableau and PowerBI to create impactful insights with matplotlib, Plotly, and seaborn. Boosted user engagement by 30% through enhanced interactivity using D3.js and Google Charts.
- **Stock Price Prediction | Python, LSTM, ARIMA, MySQL, PowerBI |** GitHub
  Engineered a financial predictive model, using ARIMA and LSTM to forecast stock prices, integrating the yfinance API and S&P 500 index data. Utilized MySQL database queries for efficient data storage and retrieval strategies and PowerBI for insightful data analytics and visualization, enhancing decision-making processes, and achieving a remarkable 98.2% accuracy rate.
- **Commonsense QA Model | Python, BERT, Hyperparameter fine-tuning |** GitHub
  Enhanced the eSIM model with 12K commonsense questions, boosting accuracy by 40%. Used BERT (bert-base-uncased) for advanced hyperparameter fine-tuning and upgraded to version 2, significantly improving performance and predictive accuracy.

OTHER PROJECTS

- **NER Tagging Application |** Python, Flask, NLP, NER, SpaCy, HTML **|** Github
- **MCQ Generator |** Python, Flask, NLP, SpaCy, Bootstrap, HTML5/CSS **|** Github
- **Resume Matching System |** Python, Flask, NLP, SpaCy, TfIDF, Scikit-Learn, Bootstrap, HTML5/CSS **|** Github

EDUCATION

University of Maryland, Baltimore County**, Master of Science (MS), Computer Science** *(Aug 2022 – May 2024)*
Savitribai Phule Pune University, **Bachelor of Engineering (BE), Computer Engineering** *(June 2016 – May 2020)*

ACHIEVEMENTS

- Received the Harbinger Superstar of the Month **Award** in October 2020. Participated in the 'Code Review" Bugathon.
- *Certifications*: **Microsoft** (AI on Azure), **AWS** (DevOps), **Google Cloud** (Transformer & BERT Model), Data Analytics for BI, **IBM** (Data Analysis using Python), **Workato** (Automation Pro I, II), **Udemy** (Golang), **DeepLearning.ai** (Prompt Engineering for Developers), **Oracle** (Gen AI Professional & OCI Foundations Associate, Cloud Data Management)