




# Abhishek Shandilya

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## EDUCATION

**JSS Academy of Technical Education, Noida**

*B. Tech (Electrical Engineering)*

December 2021 - present

*Current CGPA: 7.2*

**DAV Public School, Sector-14, Gurgaon**

*Physics, Chemistry, Mathematics*

June 2020

*Percentage: 90.6*

## WORK EXPERIENCE

**Zeko AI**

*Software Development Intern*

July 2024 - October 2024

- Designed AWS Lambda workflow integrating **S3**, **DynamoDB**, and **Elasticsearch**, ensuring seamless parsing and data indexing. (deployed in production)
- Automated lead generation using **Selenium Webdriver** and **Zenrows API** enhancing web scraping reliability against modern bot defenses, enabling dynamic lead aggregation.
- Developed a **Ranking Engine** leveraging Elasticsearch **multi-match** scoring and CV weight metric (*signifies the quality of an individual's CV*), improving search precision across datasets. (deployed in production)
- Fine-tuned **Phi-3 Mini** using **QLoRA** on a custom dataset containing more than *4000 samples* using Google Colab trained on the T4 GPU, reducing latency by *2s/resume* while maintaining parsing accuracy.
- Built **RNN-based classifiers** for binary classification, optimized for minimal RAM requirement and inference latency to reduce server costs. (deployed in production)

## SKILLS

**Languages:** Python, Go, C/C++, BASH Scripting

**Tools & databases:** Git/GitHub, Unix Shell, VS Code, Jupyter Notebook, Google AI Studio, PyMongo (Mongo DB), Boto3 (Amazon Dynamo DB), Elasticsearch, AWS Lambda, AWS Cloudwatch, AWS S3

**Libraries:** PyTorch, NumPy, SciKit Learn, Matplotlib, Huggingface Transformers, Streamlit, Langchain, OpenAI API, Selenium, BeautifulSoup, Unstructured

## PROJECTS

**ArFive** | *Python, BASH Scripting, APIs (Gemini, ArXiv, PyFiglet, Unstructured), Unix Shell, VS Code*

April 2024

- RAG**-based research assistant for reading and assimilating ArXiv papers
- Scans ArXiv records for top 5 papers based on user's query using **ArXiv API**
- Uses Google's **Gemini** Model to help comprehend and summarise a paper
- Dynamic document **memory** for conversation history and learned literature corpus
- A **terminal-based user interface** for efficiency and ease-of-use

**Zeitgeist** | *Python, APIs (News API, Google PaLM, Google search), VS Code*

February 2024

- Team Project for Openhack Hackathon held in February 2024 by IISC Bangalore
- An **NLP** tool for retrieving and summarising news articles from the web
- News API** and Langchain's **Google Search API** to retrieve relevant articles, links, and images
- Utilises **Beautiful Soup** for web-scraping
- Uses **BART Large-CNN** model by Meta from **Huggingface Transformers** for text summarisation

## INTERESTS

**Reading** | *Finance, Technology, Philosophy, Deep Learning Research*

**Football** | *Player, Enthusiast*

Winner: Gurgaon (HR) Under-19 District Championship, 2019. Inter-DAV NCR Zonals, January 2020

Runner-up: Sirohi (RJ) Under-14 District Championship, September 2015