

## Devesh Parmar

Senior Machine Learning Engineer  
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### Professional Summary:

- Senior ML Engineer with overall 10 years of experience and 6.5 years of experience in the AI and Data Science domain.
  - Having experience in handling small size teams.
  - Hands-on experience in **Natural Language Processing(NLP)**, **Machine Learning**, their pipelines and deployment.
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### Skills:

- Programming Languages: **Python**
  - Data Science Libraries: **Pandas, Numpy, Matplotlib, Scikit Learn, Tensorflow, Keras**
  - Generative AI: **LLM, Chat GPT, Prompt Engineering, LangChain**
  - Databases: **MySQL, MongoDB, Redis**
  - Web Frameworks: **Fast API, Django, Flask**
  - Deployment Tools: **Docker, Kubernetes**
  - Cloud: **AWS, Sagemaker**
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### Work Experience:

#### Aera Software Technologies

August 2020 - Present

##### *Sr. Machine Learning Engineer*

- Used **Seq2Seq with attention** architecture for rephrasing follow-up questions and preserving the context.
- Implemented custom **Entity Extraction** module using **Bidirectional LSTM** based model.
- Implemented **Intent Classification** using **SVC** algorithm, and achieved 87% of accuracy.
- Enabled Model predictions using APIs.
- Created **APIs** to retrain the models on new data and deploy.
- Optimized different parts of codes to reduce the overall latency.
- Created test suite which tests and verifies all the modules individually and their integration.

#### Wipro Technologies

February 2017 - August 2020

##### *Senior Software Engineer - AI*

- Got "**Extraordinary Contributor**" award.
- **Handled a small team** of software engineers.
- Contributed in the process of conversion of business requirements into technical modules and architecture design.
- Designed Optical Character Recognition module using **Tesseract**.
- Improved **OCR** accuracy by enhancing the **image segmentation** of documents using **OpenCv**.
- Implemented **image classification** module to classify the engineer's drawing images, it was designed using **transfer learning** and **Deep Neural Network**.
- Designed **documents classification** module using **Random forest**. Speed up the processing by using **multiprocessing**.
- Created a module to extract the different entities (**NER**) using **LSTM** based architecture.
- Designed the APIs for all the services related to **OCR** and **NER** by using **Flask**.

#### Thingbot Technologies

November 2013- February 2017

##### *Senior Software Engineer*

- Developed applications in C on Contiki RTOS to fetch the data from different kinds of physical sensors using serial communication protocols like UART, SPI, I2C.
  - Developed server to collect and store the data from different sensors that create a wireless sensor network.
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### Education:

- **M.Tech. in Robotics** from **Indian Institution of Information Technology Allahabad**.
- **B.E. in Computer Science** from RGPV Bhopal.

