

ABHISHEK L

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ACADEMIC QUALIFICATION

Course Name	Institution	Year of Completion	Score
M. Tech – Data Science (Online)	BITS Pilani – WILP	2025	CGPA – 8.47
B. Tech – Computer Science	VIT University – Chennai	2019	CGPA – 8.6

WORK EXPERIENCE

→ PeerIslands (Senior Software Engineer)

October 2024 - Present

- ◆ *NestJS (Typescript)*: Implementation of several APIs, Scheduler services, Cron jobs, Service Bus consumers, Auth services using JWTs. Test suites development in Jest.
- ◆ *MongoDB*: Development of MongoDB queries and aggregation pipelines. Experience on Mongoose as ODM.
- ◆ *.NET Development*: Implementation of APIs and event-hub triggers with Entity Framework
- ◆ *Azure Cloud*: App Service, Slots, Functions App, Event Hubs, Service Bus, Log Analytics
- ◆ *Azure Devops*: Experience on BUILD and RELEASE pipelines in Azure Devops Pipelines
- ◆ *Terraform Code Development*: Infrastructure Deployment
- ◆ Experience on Microsoft Graph APIs, Azure Blobs and other third party integrations like MapBox, Twilio, SendGrid.
- ◆ Exposure to OpenShift, ArgoCD and Camunda workflows.

→ AdeptLabz (Senior Software Engineer)

April 2023 - September 2024

- ◆ *Java (SpringBoot)*: Implementation of APIs that use the Hibernate framework as the ORM for MySQL.
- ◆ *JUnit & Mockito*: Development of test suites & unit test cases.
- ◆ Exposure to Flowable, RabbitMQ and Kibana for logs.

→ eShakti Pvt. Ltd. (SDE - Software Development Engineer & Data Science ML Engineer)

September 2021 - March 2023

- ◆ *Full-Stack Web Development*: Customer-facing applications and internal tools using jQuery, AJAX, ASP.NET MVC, ASP.NET, Classic ASP
- ◆ *Backend & Data Access*: Entity Framework, ADO.NET, LINQ, OLE DB, ODBC
- ◆ *Programming Languages*: Python, C# – development of tools, APIs, and software applications
- ◆ *Relational Databases*: SQL / Transact-SQL (T-SQL), Stored Procedures, DML, DDL, TCL, complex query development
- ◆ *Machine Learning (scikit-learn)*: Regression models for pattern prediction using customer inputs, product descriptions, and historical data to optimize operations and reduce workforce/licensing costs
- ◆ *Applied ML & R&D*: Customer segmentation for personalized offers, product classification for priority-based product listing and ranking

→ Shell India Markets Private Limited (Software Engineer - IT)

July 2019 - September 2021

- ◆ *Test & Process Automation*: End-to-end document distribution automation using Selenium with Python for EDMS (Assai), resulting in significant manual effort and licensing cost savings
- ◆ *SharePoint Development*: Classic & Modern UI site development, SPFx applications (TypeScript) using C#
- ◆ *SharePoint Architecture & Administration*: Site architecture design, document libraries, content management, workflows, forms, and access/permission management
- ◆ *Data Analytics (Exposure)*: Dashboarding and data visualization using Tableau and Power BI
- ◆ *R&D / Proof of Concept*: POC development for data extraction from various heterogeneous document formats
- ◆ *Excel Automation*: Excel VBA macros for data manipulation, business-rule-based processing, and data migration support

INTERNSHIPS

→ RedBlackTree

May 2018 - June 2018

Interned at RedBlackTree as a part organization's AdminiBot team, to build a complete OCR system using various image processing concepts and machine learning techniques to detect the contents of any given invoice image and hence to automatically segregate the textual content like the Company Name, price, etc...

→ Dr. Agarwal's Eye Hospital

June 2017 - July 2017

Contributed majorly to every phase of a Software Development Life Cycle starting from requirements gathering, features suggestion and functionalities selection, road map building to ensuring of timely delivery along with testing for an EHR Software (Electronic Health Record) which was in the very initial developmental stage.

SKILLS

- NestJS Framework with Mongoose as ODM for MongoDB, Jest for test suites
- .NET with Entity Framework as ORM for SQL, postgres
- Azure Devops - BUILD & RELEASE pipelines
- APIs Development, EventHub triggers, Service Bus consumers
- Scheduler Services, Cron Jobs & Auth Services using JWTs
- SQL Jobs, Queries & Stored Procedures
- MongoDB Queries & Aggregation Pipelines
- SpringBoot Framework with Hibernate as ORM for MySQL, JUnit & Mockito for Test Frameworks
- Machine Learning - Regression, Classification & Clustering
- Image Processing & Computer Vision
- TypeScript
- C#
- Python
- Terraform
- Azure Devops
- NoSQL - MongoDB
- SQL & T-SQL, Postgres
- JavaScript, jQuery, Ajax
- LINQ Expressions
- Java
- Scikit-learn

PUBLICATIONS

- ❖ A research paper on '**Optical Character Recognition using Ensemble of SVM, MLP and Extra Trees Classifier**' has been published in the **IEEE INCET-2020 Conference** (IEEE International Conference for Emerging Technology) which is included in the IEEE Xplore. ([Link to Paper](#))
- ❖ A paper named '**Accident Detection and Number Plate Recognition using Image Processing and Machine Learning**' has been published in the IJRTE journal (**International Journal of Recent Technology and Engineering**) under the Volume-8 Issue-5 which is indexed by Scopus. ([Link to Paper](#))
- ❖ A paper named '**Automation in Agriculture Using IOT and Machine Learning**' has been published in the IJITEE journal (**International Journal of Innovative Technology and Exploring Engineering**) under the Volume-8 Issue-8 which is indexed by Scopus. ([Link to Paper](#))

CERTIFICATION & ONLINE COURSES

- ❖ **Microsoft Certified: Azure Fundamentals ([Link](#)):**
Certification on Azure from Microsoft - Helpful in understanding different cloud concepts and cloud services needed while developing projects on Azure and other cloud services.
- ❖ **Algorithmic Toolbox ([Link](#)):**
A 6-weeks complete course on Algorithms offered by University of California, San Diego through Coursera
- ❖ **Programming in Go ([Link](#)):**
A 3-courses 12-weeks specialization program on GoLang offered by University of California, Irvine through Coursera.

PET PROJECTS

- ❖ **Cricket Match Win Predictor (Web Mining)**

An application (Python language with UI - Tkinter) that predicts the percentage of victory of any team in a cricket match by scraping, on its own, the statistics of the players from the web.

- ❖ **House Price Prediction - Machine Learning - Kaggle problem**

A regression problem to predict the price of a house which has more than 180 attributes to learn. Used different ML techniques - XGB, Lasso Regression, Random Forest, Linear Regression. Secured a Kaggle rank of 216 (was ranked in the top 10%) during the time of submission.

- ❖ **Accident Detection and Number Plate Recognition (Image Processing & Machine Learning)**

Python application that uses different image processing and machine learning techniques to detect the car and hence the number plate if any collision or accident is detected.

- ❖ **Sign Language Recognition (Image Processing & Machine Learning)**

Python application that first separates the human hand from the background and then computes different image descriptors which are pushed into a trained ML model to predict the meaning of that particular hand-sign.

CERTIFICATE OF APPRECIATION – DURING GRADUATION

- ❖ Awarded with a Certificate of Appreciation for **topping in Advanced C++** exams organized by the **GNU/Linux User Group** and **ACM Student Chapter** in association with Spoken Tutorial Team of **IIT Bombay**.
- ❖ Awarded with a **Certificate of Appreciation** along with a **cash prize** for meritorious performance and excelling in the quiz conducted at the end of a **Python workshop**.
- ❖ Secured **second place** for **coding and executing** a Hangman game in a **Tech-Learning Competition**.